سلسلة

الأوائل

ده الرياضيان الصف الرابع لفانے الإبندائی نرم أول إعداد

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the first unit lesson (1)

Big numbers

How to read the number

- Divide the number into numerical groups

 (units thousands millions billions)
- Each group contains digits (ones, tens, hundreds).
- Each numerical group is separated from the other by a comma, such as (9,876,543)
- You read the number groups from left to right, followed by their name

	Big numbe	rs
hundred thousand	The smallest 6-digit number	100,000
million	The smallest 7-digit number	= 1,000,000 1000thousand
The ten million	The smallest 8-digit number	10,000,000
hundred million	The smallest 9-digit number	100,000,000
billion	The smallest 10-digit number	= 1,000,000,000 1000million
The ten billion	The smallest 11-digit number	10,000,000,000
hundred billion	The smallest 12-digit number	100,000,000,000

A quarter of a billion = 250,000,000

Half a billion = 500,000,000

Three quarters of a billion = 750 thousand = 750,000,000

A quarter of a million =
250 thousand = 250,000

Half a million =
500 thousand = 500,000

Three quarters of a million =
750 thousand = 750,000

Large numbers can be expressed using a place value table

	5,476,318,209											
mi	lliard	S	m	illion	S	tho	thousands			units		
Н	T	0	Н	T	0	н т	T	0	Н	T	0	
		5	4	7	6	3	1	8	2	0	9	

 And he reads: five billion, four hundred and seventy-six million, three hundred and eighteen thousand, two hundred and nine.

								£	5,432,7	65,698	-1
mi	Illiard	S	m	illion	S	tho	thousands units				
Н		0	H		0	H	gan — etas Japan <mark>e</mark> tas	0	Н	702 270 202 270	0

• read :------

									345,3	51,679	-2
mi	lliard	S	m	illion	S	tho	thousands			units	
Н		0	Н	T	0	Н	T	0	H	T	0

• read :.....

(2) Write each of the following numbers in word form

(1): 54,246,768......

(2) 123,546,908.....:

(3) 4,543,647,100 ::

	(3)	Write	each	of the	follow	ing r	numb	ers in	exten	ded
-	for	m								

(1) : 54,246,768

(2) 234,654,105:

......

Example 3: Complete

- 1-The place value of the digit 6 in the number 23,543,764 is
- 2-The value of the digit 8 in the number 462,810,333 is
- 3- 355,647= +
- $4-34,000,000 + 478,000 + 546 = \dots$
- 5-4,000,000 + 150,000 + 5 =
- 6- A 6-digit number whose tens digit is 8 is
- 7- A 5-digit number whose hundreds digit is 4 and its tens digit is 3 is......
- 8-A million is the smallest number made up of digit

Example 4: Write the place value and the number value of each digit in the number 5,476,318,209.

- 1-The place value of the number 9 is and the value of the number 9 is......
- 2-The place value of the number 0 is and the value of the number 0 is......
- 3-The place value of the number 2 is and the value of the number 2 is.....
- 4- The place value of the number 8 is and the value of the number 8 is......
- 5-The place value of the number 5 is and the value of the number 5 is......

Exa	Example 5: - Compare using $(= , < , >)$						
1	The value of the number 5 in the milliard digit		The value of the number 5 in the million digit				
2	The value of the number 5 is number 9 in the milliard digit The value of the number 5 is in the tens of millions						
3	The value of the number 4 in the hundreds place						
4	The value of the number 9 in the ones place The value of the number the milliard digit						
Exa	Example 6: - Divide numbers to make it easier to read						
1	3,200,862,147 = milliard and million and thousand and						
2	1,741,000,527 = n	nilliard thousa	d and million and and and				
3	$9,301,000,000 = \dots n$	nilliard					
Exa	mple 7: - Complete by						
1	3 milliard, 689 million, 5	24 the	ousand, 130 =				
2	8 milliard, 100 million, 4	73 th	ousand, 10 =				
3	milliard, 609 million, 624	thous	sand, 135 =				
4	9 milliard, 5 million, 356	thous	sand, 10 =				
5	4 milliard, 263 million, 1	2 thou	ısand, 35 =				

Exa	mple 8: - Read and then answer			
1	Name three different values for the number 6:			
2	Do all digits of the number 888 have the same value?			
3	The digit that falls in the tens of millions place in the number 1,741,000,527 is			
5	If the value of the digit 9 is 9,000,000, then the place value is			
6	A milliard is the smallest number made up of digits			

Exercises (1)

								313	,543,	768,250) -
m	illiard	S	m	illion	S	tho	usan	ds		units	
H	T	0	H	T	0	H	T	0	H		0
• re	ad :								•••••		•••••
									346,78	88,000	-
milliards millions thousands units											
m	illiard:	5	m	IIIIION	5	tno	usan	as		units	
m H	illiard: T	s O	H	T	0	H	usand	o O	Н	T	0
		59			- 3		usan			T	O
		59			- 3		T			T	O
H		O		1	O			O	H	T	0
H		O		1	O			O	H	T	0
H		O		1	O			O	H	T	O
• re	ad :	O		T	0	H	T	O		T	0
• re	ad :	each	H of t	the fo	llow	ing n	umbe	rs in	word	1 form 62,345	

(3) for	Write each of the following numbers in the extended m
1	: 62,345,000
2	: 78,432,206

.....: 78,432,206

.: 10,000,345

(4)	Complete
1	The place value of the digit 2 in the number 23,543,764 is
2	The value of the digit 6 in the number 462,810,333 is
3	311,570 = +
4	100 + 56,000 + 12,000,000 =
5	71 + 34,000 + 5,000,000 =
6	A 7-digit number whose hundreds digit is 9 is
7	A 5-digit number whose hundreds digit is 1 and its tens digit is 6 is
8	One hundred thousand is the smallest number made up of digits

All Control of the Co	(5) Write the place value and the number value of each digit in the number 4,752,813,906.					
tile i	The place value of the digit 9 is and the value of the					
1	digit 9 is					
2	The place value of the digit 0 is and the value of the					
:	digit 0 is					
3	The place value of the digit 2 is and the value of the					
	digit 2 is					
4	The place value of the digit 8 is and the value of the					
(La)	digit 8 is					
5	The place value of the digit 5 is and the value of the					
	digit 5 is					
6	The place value of the digit 1 is and the value of the					
U	digit 1 is					
7	The place value of the digit 3 is and the value of the					
,	digit 3 is					
8	The place value of the digit 6 is and the value of the					
0	digit 6 is					

Exar	Example 5: - Compare using $(=,<,>)$						
1	The value of the number 5 in the ones place	The value of the number 7 in the million digit					
2	The value of the number 9 is in the millions place	The value of the number 3 is in the tens of millions					
3	The value of the number 6 in the hundreds place	The value of the number 8 in the hundreds place					

Exa	Example 6: - Divide numbers to make it easier to read						
1	7,213,200,784 = milliard and million and thousand and						
2	8,735,250,520 = milliard and million and thousand and						
3	6,000,642,000 = milliard and million and thousand and						

Exa	Example 7: - Complete by writing the standard form					
1	21 milliard, 137 million, 749 thousand, 248					
2	5 milliard, 50 million, 380 thousand, 21 =					
3	milliard, 438 million, 65 thousand, 39 =					
4	4 milliard, 765 million, 314 thousand, 666 =					
5	3 milliard, 310 million, 748 thousand, 734 =					

Exa	Example 8: - Read and then answer					
1	List three different values for the number 9:					
2	Do all digits of the number 777 have the same value?					
3	The number that falls in the tens of millions place in the number 6,342,000,888 is					
4	One hundred million is the smallest number made up of digits					

Lesson (2)

Change and compare values

number value

- We write the number and put zeros in front of it with the number of digits that precede it
- The value of the number changes as we move towards the left, as the value of the number increases each time by 10 times the value of the previous one.

place value

 It is the name of the digit in which the digit is located

(ones - tens - hundreds...)

- 5 in the tens is equal to 10 times the 5 in the ones: 5 x 10 = 50
- 5 in hundreds is equal to 10 times 5 in tens:
 50 x 10 = 500
- 5 in millions equals 10 times 5 in hundreds of thousands

 $500.000 \times 10 = 5.000.000$

Example 1: - Notice the change in the value of the number 9 with the change in its place value

- 1 The value of the digit 9 in the ones place is......
- 2 The value of the digit 9 in the tens place is......
- 3 The value of the digit 9 in the hundreds place is......
- 4 The value of the digit 9 in the thousands place is......
- 5 The value of the digit 9 in the tens of thousands place is......

Example 2: - Complete

- 1 12 million = thousand
- 2 6 billion = million
- 3 25 thousand = hundred = ten
- 45 tens of thousands = = thousand = ten

Example 3: - Write the place value and the digit value of the
number 4 in the following numbers

the number	place value	value
123,345		
15,868,423		
141,279,888		
1,214,623,768		
19,531,040,011		
147,999,126,000		

Example 4: - Complete

1	A number	equal '	to	1000	times	58	is
---	----------	---------	----	------	-------	----	----

2 (5 Ones and 9 tens) x 100 =	2	(5	Ones	and	9	tens)) X	100	=	
-------------------------------	---	----	-------------	-----	---	-------	-----	-----	---	--

Example 5: - Complete

Exercises (2)

	Example 1: - Notice the change in the value of the number 8 with the change in its place value						
1	The value of the digit 8 in the billion place is						
2	The value of the digit 8 in the tens of millions place is						
3	The value of the digit 8 in the hundreds of millions place is						
4	The value of the digit 8 in the millions place is						
5	The value of the digit 8 in the tens of thousands place is						

Exa	Example 2: - Complete						
1	34 million = thousand						
2	5 billion = million						
3	46 thousand = ten						
4	12 tens of thousands = = thousand = ten						
5	22 hundreds of thousands = = thousand = hundred						

Exa	mple 3: - Complete
1	A number equal to 100 times 65 is
2	(2 Ones and 7 tens) x 10 =
3	500 thousand = hundred
4	A number 100 times greater than 72 is
5	(8 Ones and 1 hundreds) x 100 =
6	(3 hundreds and 9 tens) x 1000 =
7	How many hundreds are in the number 1000?
8	hundred = 8,000
9	10 times the number 32 =
	10 times the number 54 thousand =

Lesson (3-4)

- Many Ways Write Composing and decomposing

standard formula

Comms are used to show periods
 For example: 3,215,679

Word form

- It is writing the number in words by dividing it from right to left as follows:
- And read from left to right as follows: 5,476,318,209
- Five billion, four hundred and seventy-six million, three hundred and eighteen thousand, two hundred and nine.

Expanded form

 It is writing the number in the form of the sum of the values of its digits as follows:

 $5,476,318,209 = 5 \times 1,000,000,000 + 4 \times 100,000,000 + 7 \times 10,000,000 + 6 \times 1,000,000 + 3 \times 100,000 + 1 \times 10,000 + 8 \times 1,000 + 2 \times 100 + 9 \times 1$

 Note The number 0 is not written in the extended form because it has no place value.

Example 1: - Write the following in the standard form

1 $500,000 + 70,000 + 3,000 + 100 + 90 + 3 = \dots$

2 600,000 + 50,000 + 2,000 + 700 + 5 =

 $3 80,000,000 + 5,000 + 400 + 30 + 9 = \dots$

4 Three million seventy thousand =.....

forty-three million two hundred and fourteen thousand and five =

Example 2: - Write the following in the extended form

1 4,135,789 =......

Three hundred and ninety-five thousand=

Exa	Example 3: - Write the following in the WORD form						
1	= 4,135,789						
2	= 108,135,789						
3	80,000,000 + 5,000 + 400 + 30 + 9 =						
4	=123,345						
5	=15,868,423						

Composing and decomposing numers

- The first method: Using the extended form
- \bullet 20,006,439 = 20,000,000 + 6,000 + 400 + 30 + 9
- · The second method: -
- $2,007,409 = (1,000,000 \times 2) + (1,000 \times 7) + (100 \times 4) + (1 \times 9)$

Ex	Example (1) Choose the correct answer									
(1)	3,000 + 100 + 90 + 3 =									
(A)	3,913	NO 2575	3,193	(C)	9,133	(D)	3,391			
(2)	$(10,000\times2) + (1,000\times7) + (100\times4) + (1\times9) = \dots$									
(A)	72,409	(B)	27,904	(C)	2,749	(D)	27,409			
(3)	One million 235 thousand and 127=									
(A)	1,235,127	(B)	1,532,127	(C)	1,235,721	(D)	1,200,127			
(4)	Three million three thousand and three =									
(A)	3,003,030	(B)	3,300,003	(C)	3,003,003	(D)	3,033,000			

Exercises (3)

Exa	Example 2: - Write the following in the extended form		
1	= 2,523,204		
2	= 134,740,006		
3	Three hundred and ninety-five million=		
4	seventy-five million three thousand five =		

Lesson (5-6)

Compare numbers in different forms

 To compare any two numbers, we count the digits of each of the two numbers, then follow the following

If the number of digits of each of the two numbers is different, then the number whose number of digits is greater is the larger number.

Example 1: - Compare using $(= , < , >)$		
1	4,788	100
2	134,100	6,022,624

 If the number of digits of each of the two numbers is equal, then we compare the values of the digits of each of the two numbers from left to right.

Example 2: - Compare using $(= , < , >)$		
1	844,257	831,983
2	981,345	944,500

Comparing large numbers in different forms:

 We put both numbers in the standard form, and then perform the comparison process.

Example 3: - Compare using (= , < , >)		
1	Five hundred and sixty-three thousand nine hundred and eighty-five	500,000 + 70,000 + 4,000 + 800 + 10 + 9
2	Five million four hundred and three	+ 2,000 + 700 + 2 + 50 400,000 + 50,000

E	kample 4: - Co	mpare using (= , <	< , >)	
1	741,100,636	741,100,616	6	7,100,616	7,100,616
2	854,200,142	214,987,741	7	142,200	142,214
3	200,432,839	200,432,347	8	17,987	71,987
4	100,100,000	100,452,000	9	536,964	143,999
5	35,987,214	35,214,000	10	8,300,523	8,002,275

Exa	Example 5: - Complete		
1	Find a number in the tens of thousands less than 457,100,741 =		
2	Find a number in hundreds of millions that is greater than 532,734,122 =		
3	Find a number in the billions that is less than 7,100,324,789=		
4	Find a number in tens of millions that is less than 100,324,789=		
5	Find a number in the hundreds less than 324,789=		

Exa	Example 6: - Compare using $(= , < , >)$		
1	6 + 66 + 888 + 100,000		4 + 10 + 123 + 10,000
2	11 + 764 + 99,000,000		11 + 345 + 400,000,000
3	1 + 22 + 6.456 + 788.000		1 + 89 + 7,000 + 416,000
4	900 + 100,000 + 90,000,000		900 + 400,000 + 200,000
5	8 + 700 + 6,000 + 400,000		8 + 400 + 7,000 + 300,000
6	Seven million		Five million four hundred and three
7	Four billion one hundred thousand		Four billion 100 thousand
8	8,539,541		146,329,875
9	4 billion 123 million 100 thousand		4 billion 426 million 400 thousand
10	121,374		3,219,874
11	100,147,963		100,147,965

Exercises (4)

Example 1: - Compare using $(= , < , >)$					
1	643,100,636	873,100,616	6	5,516,100	5,224,616
2	21,200,142	12,987,741	7	167,200	625,256
3	637,432,89	156,000,437	8	17,713	41,987
4	2,634,000	2,452,000	9	25,964	13,999
5	76,000,000	41,214,000	10	8,300,612	8,250,999

Exa	Example 2: - Complete		
1	Find a number in the tens of thousands less than 100,741 =		
2	Find a number in the billions that is greater than 532,734,122 =		
3	Find a number in the billions that is less than 9,451,532,000 =		
4	Find a number in the tens of thousands less than 324,789 =		
5	Find a number in the tens that is less than 789 =		

Example 3: - Compare using $(= , < , >)$			
1	1 + 61 + 145 + 400,000		4 + 10 + 999 + 50,000
2	11 + 256 + 77,000,000		11 + 156 + 800,000,000
3	1 + 75 + 6,261 + 167,000		1 + 26 + 1,000 + 621,000
4	900 + 75,000 + 51,000,000		900 + 1,000 + 411,000
5	8 + 700 + 8,000 + 255,000		8 + 993 + 8,000 + 111,000
6	Nine million		Four million four hundred and three
7	Five billion ,one hundred thousand		Seven billion ,100 thousand
8	9,539,541		7,329,875
9	7billion 457 million 474 thousand		2billion 499 million 899 thousand
10	145,642		1,150.689
11	478,246,000		100,100,000

Lesson (7)

Ascending and descending numbers

ascending numbers

 We arrange the numbers from the smallest number to the largest number.

Descending numbers

- We arrange the numbers from the largest number to the smallest number.
- Note: The arrangement is from left to right

Exa	Example 1: - Arrange in ascending order		
1	17,935,147 33,325,749 3,598,523 9,581,596		
2	48,160,000 89,362,367 673,258,267 512,314,025		
3	7,154,716 100,456,000 11,578,523 9,278,444		

Exa	Example 2: - Arrange in descending order	
1	12,935,147 64,325,749 5,243,266 9,581,100	
2	73,179,147 73,325,145 100,598,523 256,000,596	
3	1,541,555 / 900,749 / 10,174,728 / 10,581,596	

1

4

Example 3: - Complete as required

 Note: Numbers must be placed in the standard form first and then arranged

```
= 9 + 10 + 500 + 2.000 + 50.000 •

= 2 + 60 + 700 + 8.000 + 70.000 •

= 7 + 80 + 700 + 2.000 + 80.000 •

= 2 + 50 + 700 + 4.000 + 90.000 •

Descending order is
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 $\dots = 70 + 700 + 9.000 + 30.000 + 60.000.000$

• Three hundred and sixty-three thousand five hundred and ninety-nine =

Five billion and forty-one million =

Ascending order is

Exercises (5)

Exa	Example 1: - Arrange in ascending order						
1	935,147 , 325,749 , 598,523 , 581,596						
2	160,000 (362,367 (258,267 (314,025						

Exa	Example 2: - Arrange in descending order						
1	935,147 (325,749 (243,266 (581,100						
2	179,147 325,145 598,523 256,596						

Example 3: - Complete as required

 Note: Numbers must be placed in the standard form first and then arranged

```
first and then arranged

= 8 + 10 + 400 + 3,000 + 40,000 •

= 6 + 60 + 700 + 7,000 + 80,000 •

= 5 + 80 + 700 + 4,000 + 60,000 •

= 1 + 40 + 700 + 3,000 + 40,000 •

Descending order is

= Five billion one hundred thousand •

= 526 + 712,000 •

= 70,000 + 300 + (6 ×1000) •

Ascending order is
```

Lesson (8)

Estimating (predicting the unknown)

- First: Approximation using the midpoint strategy:
- First: Approximation using the midpoint strategy:
- 1- Determine the two numbers between which the number to be rounded lies:

The number 4,412 falls between 4,000 and 5,000

- 2-Determine the number in the middle of the space: The number 4,500 is halfway between 4,000 and 5,000
- 3-Determine the location of the number to be rounded on the number line

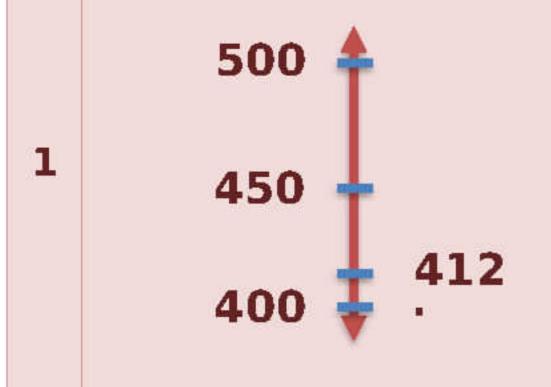
4,500 < 4,412is below the midpoint

4-Determine the number closest to the number 4,412, so we find that it is closer to 4,000

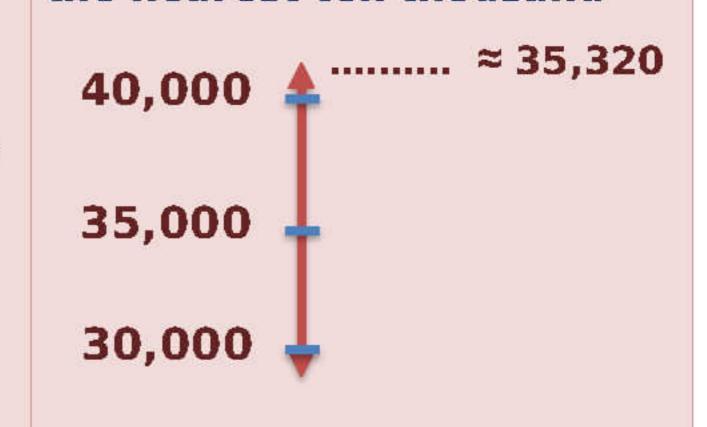
And read: 4,412 equals approximately 4,000

Example (1): - Round using the midpoint strategy.

Round the number 412 to the nearest hundredth ≈ 400



Round the number 35,320 to the nearest ten thousand



- Second: Rounding using the rounding rule:
 - Rounding rule
 - We specify the number to the right of the field to be rounded, taking into account the following:
 - If the number (0, 1, 2, 3, 4) are stingy numbers, we do not add one, and the number goes down as it is.
 - If the number (5, 6, 7, 8, 9) are decent numbers, we add one to the number.
 - Put zeros in all fields before the field to be rounded.

Exa	Example (2)						
4) 2	number	Rounding to the nearest	Rounding	estimate			
(1)	123,345	ten	123,350	100,000			
(2)	1,564,871	hundred					
(3)	15,868,423	thousand					
(4)	141,279,888	hundred thousand					
(5)	1,214,623,768	ten thousand					
(6)	19,531,040,011	million					
(7)	147,999,126,000	Ten million					

Example (1): - Rounding the following.						
1	456,964,135 ≈ ten	3	543 ≈ hundred			
2	258,253,100 ≈ thousand	4	5,256,777 ≈hundred thousand			
Exa	ample (3): - Round and esti	ma	te the following.			
1	Round Estimate 284 → + + + + 375 → Lilia Lilia Liaba هو	3	Round Estimate			
2 Exa	Round Estimate 130 + + + + 101 The output closest to the actual output is ample (4): Round the follow	4	Round Estimate 270			
1	≈ 852	3	≈ 10,512			
2	≈2,306	4	≈ 128			
Exa	mple (5): - Read and then	ans	wer			
1	A building with a height of 125 meters, round the height of the building to the nearest hundred					
2	A road with a length of 85,125 meters, round the length of the road to the nearest thousand					
3	The population of the village population of the village to		ear ear sources			

Exercises (6)

Example (1): Round the following to the nearest hundred. ≈ 10,512 1 ≈ 852 3≈ 128 2≈2,306 Example (2): Round the following to the nearest thousand. ≈ 10,512 1 3 ≈ 23,852≈ 145,128≈2,306

	Example (3): Round the following to the nearest tens of thousands.				
1	≈ 160,256	3	≈ 623,512		
2	≈537,306	4	≈ 728,128		

Exa	Example (4): Round the following to the nearest million.					
1	≈ 72,747,852	3	≈ 12,975,512			
2	≈2,306,246	4	× 145,128,467			

Exam (unit one)

Ex	xample (1) Choose the correct answer							
(1)	The value of the digit 8 in the number 9,876,543 is							
(A)	80,000	(B)	800,000	(C)	8,000	(D)	8,000,000	
(2)	A billion is t	the s	mallest nu	mbe	r made up o	f	digits	
(A)	10	(B)	11	(C)	9	(D)	7	
(3)	The number	r of l	hundreds i	n the	number 5,3	300,0	000 is	
(A)	53,000	(B)	5,300	(C)	530,000	(D)	530	
(4)	12 represents							
(A)	Digit	(B)	number	(C)	both together	(D)	otherwise	
(5)	14million 96	0 tha	usand =					
(A)	140,960,000	(B)	1,400,960	(C)	14,960,000	(D)	140,960	
(6)	10 × 4,500) =		,		7		
(A)	45,000	(B)	450,000	(C)	450	(D)	4,500,000	
(7)	The value of the number 9 is in the millions The value of the number 3 is in the billion							
(A)	<	(B)	=	(C)	>	(D)	otherwise	

Exa	cample (2): - Complete				
1	Seventy-five million three thousand and five written in standard form=				
2	67thousand = hundred				
3	A quarter of a million = thousand				
4	253,100 ≈ to the nearest thousand				
5	145,001written in the verbal form =				
6	234,145,001is written in the analytical form =				
7	The smallest 6-digit number is				
8	(8 units and 1 hundreds) x 100=				



Ex	xample (3) Choose the correct answer							
(1)	Rounding the number 234,624 to the nearest ten thousand =							
(A)	234,000	(B)	230,000	(C)	240,000	(D)	234,600	
(2)	10times th	e nu	mber 420 e	equa	ls			
(A)	42,000	(B)	42	(C)	420,000	(D)	4,200	
(3)	The largest number that can be formed from the numbers 2, 4, 0, 8 is						1e	
(A)	2,048	(B)	8,420	(C)	8,402	(D)	2,480	
(4)				. = 1	2,000,000 +	56,	000 + 100	
(A)	10,256,100	(B)	1,256,100	(C)	12,056,100	(D)	125,610	
(5)	The place v	alue	of the digi	t7 iı	n the numbe	r 26	,798 is	
(A)	units	(B)	Hundreds	(C)	tens	(D)	thousands	
(6)	A pile of grains contains 424, how many grains are in 10 such piles?							
(A)	424,000	(B)	42,400	(C)	4,240	(D)	420,400	
(7)	In the numerical form 33 455 436, what number has							
(A)	5	(B)	4	(C)	3	(D)	6	

Exa	Example (2): - Complete as required				
1	How many times the value of a digit in the thousands place is equal to the value of a digit in the tens place (explained with an example)				
2	Factor the number 537,306 using the extended form.				
3	Write 5 different values for the number 3				
4	Ascending order 581,100 , 243,266 , 325,749 , 935,147				
5	Round the number 360 to the nearest hundred using midpoint strategy.				



unit two lesson (1)

properties of addition

- Identity Property of Addition (zero)
 - \bullet 685 + 0 = 0 + 685 = 685
- Commutative property of addition
 - \bullet 375 + 225 = 225 + 375 = 600
- Assuciatve property of addition
 - \bullet (215 + 65) + 300 = 215 + (65 + 300) =
- Note that the Property (Commutative and Assuciative) is not possible for the subtraction process.

Exan	Example (1): - Complete.					
Com	mutative	Assuciatve	Identity Property			
(1)	12 + 14 = 14 + 12	12 + 14 + 7 = $(12 + 14) + 7 = 26 + 7 = 33$	12 + 0 = 0 + 12 = 12			
(2)	10 + 26 = 26 +	5 + 4 + 8 = $(5 + 4) + 8 = 9 + 8 = 17$	0 + 26 = 26 +=26			
(3)	9 + 4 = 4 +	15 + 10 + 6 = $(+ 10) + 6 = + 6 = 31$	0 + 9 = 9 +			
(4)	47+ 76 = + 47	35+15+20 = (+)+=+=	47+ 0 = +47=			
(5)	15 + 9 = +	27+13+4 = (+)+=+=	15 + 0 = +=			
(6)	8 + 7 = +	17 +3+8 = (+)+=+=	0 + 7 = +=			
(7)	38+ 70 = +	30+40+9 = (+)+=+=	38+ 0 = +=			
(8)	a + b = +	7 +8+10 = (+)+=+=	0 + b = +=			
(9)	c + d = +	14 +6+5 = (+)+=+=	14 + 0 =+=			

First term



Exercises (1)

Exa	Example (1): - Complete.					
1	345 = 345 + 0 Property	3	The additive identity Property is			
2	5 + (56 +11) = 5 + 56 + 11 Property	4	423 + 635 = 635 + 423 Property			

Example (2): - Complete.				
1	215 + 0= Property	3	19 + = 19 Property	
2	6 + 14 + 13 = (6+)+13 Property	4	23 + 67 = + 67 Property	

Exa	Example 3: - Complete by writing equal or not equal.				
1	425 + 20	425 + 20			
2	9 + 0	99 + 0			
3	8 - 4	4 - 8			
4	600 - (500+50)	(600 – 500) + 50			
5	752 + (100 + 7)	(752 + 100) + 7			

Exar	Example (4): - Complete.					
Commutative		Assuciatve	Identity Property			
(1)	55 + 8 = +	32+12+6 = (+)+=+=	31 + 0 = 0 + 31 =			
(2)	43 + 98 = 98 +	4+3+9 = (+)+=+=	0 + 13 = 13 +=13			
(3)	8 + 3 = 3 +	11 + 6 + 3 = $(+ 6) + 3 = + 3 =$	0 + 6 = 6 +			
(4)	31+ 54 = + 31	3+6+36 = (+)+=+=	23+0=+23=			
(5)	11 + 2 = +	71+53+8 = (+)+=+=	16 + 0 = +=			



Lesson (2, 3)

Addition and subtraction with Regrouping

Ex	ample (1)	Fin	d the proc	duct			
1	284,153 + 375,938	7	484,156 + 775,935	1	484,153 - 375,938	7	884,156 - 775,935
2	274,103 + 675,931	8	234,784 + 357,578	2	874,103 - 675,931	8	434,784 - 357,578
3	583,173 + 175,627	9	582,158 + 255,734	3	583,173 - 175,627	9	582,158 255,734
4	361,164 + 715,628	10	174,107 + 526,152	4	761,164 - 715,628	10	974,107 - 526,152
5	623,153 + 974,353	11	528,624 + 153,780	5	923,153 - 574,353	11	528,624 - 153,780
6	293,159 + 173,038	12	256,634 + 216,724	6	293,159 - 173,038	12	256,634





Example (2) Round and estimate the following.					
1	estimate nearest 10 384	3	estimate nearest 10 744 + + + + 724 The output closest to the actual output is		
2	estimate nearest 100	4	estimate nearest 100 633 + + + + 510 The output closest to the actual output is		

Example (3): - Round and estimate the following.

	estimate nearest 10		estimate nearest 10
1	384		- 744 -
		3	
-	*********		*******
	The output closest to the		The output closest to the
	actual output is		actual output is
	estimate nearest 100		estimate nearest 100
	······ 4 853 		633>
	=3 (=		
2	846	4	
	The output closest to the actual output is		The output closest to the actual output is



Example (4): - Find the product.				
1	836,246 + 357,427=	5	757,573 + 934,785 =	
2	287,468 +924,744=	6	200,577 + 263,157=	
3	836,246 - 357,427=	7	957,573 - 634,785 =	
4	987,468 - 924,744=	8	500,577 - 263,157=	

Exa	mple (5): - Read and then answer
1	Souad planted a number of trees, so if she planted 45 trees on the first day and in The second day 43 trees. Find what was grown in the two days
	The exact answer = + =
2	Said saved an amount of money 5,293 pounds, and Fayrouz saved an amount of money 4,426 pounds Find the sum of what they both have The exact answer =
3	Ali bought 15 games and his sister Fatima bought 13 games Find the difference between what is with them The exact answer =



Exercises (2)

Ex	ample (1)	Fin	d the pro	duct			
1	284,153 + 375,938	7	484,156 + 775,935	1	484,153	7	884,156 - 775,935
2	274,103 + 675,931	8	234,784 + 357,578	2	874,103 - 675,931	8	434,784 - 357,578
3	583,173 + 175,627	9	582,158 + 255,734	3	583,173 - 175,627	9	582,158 - 255,734

Example (2): - Round and estimate the following.					
1	estimate nearest 10 632 + + + + 724 The output closest to the actual output is	3	estimate nearest 10 578 379 The output closest to the actual output is		
2	estimate nearest 100	4	estimate nearest 100 267 153 The output closest to the actual output is		

Example (3): - Find the product.				
1	256,566 + 874,349=	3	624,432 + 156,100=	
2	157,246 - 122,643=	4	267,573 - 134,785 =	

Exa	mple (4): - Read and then answer
1	A bridge of ants consists of 142 ants, and another bridge consists of 165 ants. How many ants are there in the two fractions together? (round to the nearest ten) The exact answer =
2	The state provided vaccination against the Corona virus, so 1,653,465 people were vaccinated in the first stage, and 3,312,447 people were vaccinated in the second stage. The exact answer =
3	A bakery sold 1,232 dumplings in one day. If it sold 867 dumplings in the morning, how many dumplings were sold during the rest of the day? (round to the nearest hundred) The exact answer =
4	There are 20,000 ants in the colony, of which 1,200 are females and the rest are males. Find the number of males. (rounded to the nearest thousand) The exact answer =

Lesson (4, 5)

- Bar models, variables and story problems
- Solving multi-step story problems with addition and subtraction Number

Bar models •

- It is used to represent story problems and solve them.
 The corresponding form represents the bar form
- Equation: It is an equal relationship between two parties.
- Variable: It is a symbol used to save the digit of the missing (unknown) number.

Example: Using the bar form, find the value of the unknown symbol in each of the following:

all part part If you need all addition If you need a part Subtraction 56,874 + a = 104,30996,518 53,924 X 2 x = 96,518 - 53,924x = 42,594Note: Addition becomes subtraction

b		
615,283	99,714	
b = 615,283 + 615	99,714	
b = 714,997		

 Note: Subtraction becomes addition

356,128 - c = 115,604

356,128		
C	115,604	
c = 356,128 -	115,604	
c = 240,524		

Note: minus symbol It stays minus

Example: Using the bar form, find the value of the unknown symbol in each of the following:

y - 515,274 = 60,276

2 66,828 + k = 184,294

4

Example (1) Using the bar form, find, as required, in each of the following:						
1	Iman planted a number of trees, so if she planted 31 trees on the first day and 25 trees on the second day. create The sum of what you sow in the two days=	2	Said saved an amount of money 65,203 pounds, and Fayrouz saved an amount of money 47,429 pounds Find the difference between what was saved=			
3	The school wants to have its own ant colony for observation and study. The colony will contain 135,523 ants. If Louay brings 53,523 ants, and Aisha brings 55,530 ants, how many additional ants will the colony need? The number of what Loua and Aisha brought= What the colony will need from ants=	4	The school wants to have its own ant colony for observation and study. The colony will contain 95,523 ants. If Louay brings 53,523 ants, and Aisha brings 55,530 ants, how many ants are there in excess of our need? The number of what Loua and Aisha brought= How much is the increase in ants=			

Example (2) Find the value of the symbol in the following equations:

1	710 + g = 930 g =	5	6,256 + a = 8,526 a =		
	a - 4,012 = 9,103		x + 52,145 = 73,513		
2	25	6	150 (NEW)		
	a =	6	x =		
			X —		
	812 - g = 415		932 + a = 1,456		
~		_	JJ2 1 4 - 1,130		
3	g =	7			
			a =		
	a - 6,422 = 4,252		x + 25,145 = 43,432		
55	a - 0,422 - 4,232	1007	X T 23,143 - 43,432		
4	5549	8	MADE:		
	a =		x =		

Example (3): - Complete

Bassem bought a bedroom for 12,152 pounds, and a refrigerator for 8,252 pounds. 25,522 pounds if he is with Bassem. What's left with him

The price of the bedroom and refrigerator =

..... + = pounds

The remainder with Bassem =

...... + = pounds

The population of the city of Mansoura is 552,641 people, while the population of The city of Mahalla, 452,252 people. Find the total population of the two cities and the

difference between them.

The sum of the two cities= + =.....=.....

The difference between the two cities =

.....=....

Exercises (3)

Example(1): Using the bar form, find the value of the unknown symbol in each of the following:

	Example (2) Find the value of the symbol in the following equations:							
_	415 + E = 714		7,612 + a = 9,417					
1	g =	5	a =					
	a - 5,145 = 9,578		x + 43,266 = 62,267					
2	a =	6	x =					

Exa	mple (3): - Complete
	He bought a bedroom for 20,153 pounds, and a refrigerator
	for 5,267 pounds. 32,515 pounds if he is with Bassem.
1	What's left with him .

	The population of the city of Mansoura is 423,416 people,
	while the population of The city of Mahalla, 621,124 people.
772-27	Find the total population of the two cities and the
2	difference between them.

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Exam (Unit Two)

Example (1) Choose the correct answer										
(1)	Estimating the number 34,089 to the nearest ten thousand=									
(ĵ)	34,000	(ب)	34,090	(ج)	30,000	(2)	35,000			
(2)	Four hundred twenty-three thousand, and two 2 + 30,000 + 400,000									
(ĵ)	<	(ب)		(ج)	>	(2)	otherwise			
(3)	= T , 279 - T = 266									
(†)	3	(ب)	13	(ج)	33	(a)	530			
(4)	Which of the neutrality in			ons sa	atisfies the ad	ditiv	e			
(ĵ)	9+0=9	(ب)	8+3=3+8	(جـ)	5×1=5	(2)	3+4=5+2			
(5)	47,605 + 63,3	395 =	=							
(ĵ)	140,960,000	(ب)	1,400,960	(ج)	111,00	(2)	140,960			
(6)	Which of the property of the			ns in	dicates the co	omm	utative			
(ĵ)	= 492 + 635 $635 + 492$	(ب)	0 + 847= 847	(ج)	= 36 16 + (2+ 18)	(2)	7,012			
(7)	The additive	e ne								
(†)	0	(ب)	1	(جــ)	2	(a)	3			

Exa	Example (2): - Complete								
1	= A · A - 400 = 800								
2	Additive neutral element plus 99 =								
	X =								
3		96,518							
		53,924	x						
4	57,000 - 43,875 =								
5	854 + =854and	it is call	ed the pr	operty of					
_	234,145,001is writter	n in the a	nalytical	form =					
6	***************************************								
-	The smallest 7-digit no	umber is							
/	ine sinanest / digit in								
8	63 + = 765 + 63	3							

Ex	am	ole (3) (Choc	se the co	rrec	t answer		
(1)	The	property	17 +	74 = 74 + 1	.7 is c	alled the prop	erty	of
(†)	pre	ssociate operty of ddition	(ب)	Commutative property of addition	(ج)	Identity Property of addition	(2)	Identity Property of multiplication
(2)	1 +	853		894 – 7	54			
(†)		<	(中)	=	(ج)	>	(a)	otherwise
(3)		nammad s h is left		Ge .	and	spent 436 pou	unds	of it, how
(†)		624	(ب)	421	(ج)	552	(a)	313
(4)	ls 5	- 8 = 8	- 5 a	correct ma	ath s	entence		?
(ĵ)	Com reali	the mutative is zed in the otraction	(ب)	No, because the Commutative is not realized in the subtraction	(ج)	No, because the Associate is not realized in the subtraction	(2)	Yes, because the Associate is realized in the subtraction
(5)	The	closest r	esult	to solving t	he pr	oblem is 5,734	1 + 1	82,766
(†)	1	70,000	(ċ)	175,000	(جـ)	180,000	(a)	189,000
(6)	1000000	le of grai s?		ntains 424,	how r	nany grains a	re in	100 such
(ĵ)	4:	24,000	(ب)	42,400	(جـ)	4,240	(2)	420,400
(7)	If 4	25 = 26 0) + F	R then $R = .$				
(ĵ)		165	(ب)	241	(ج)	153	(2)	215
	Exai	nple (2)	: - C	omplete as	requ	uired		
	1		The second second	+47 =		perties of add		
	2	738,382	- 415	,635 =				
	3	326,820	+ 27	8,168 =	******		*****	
	4			ed 25 km with he cover?	h his	car and 156 k	m ag	gain. How
	5	with 1,88	34 po	and the second s	ne bo	oought a gift fught a bag wi		NUMBER OF THE PROPERTY OF THE

The third unit Lesson (1)

Measure lengths

- The relationship between units of length:
- 1kilometer = 1,000 meters. 1 meter = 10 decimeters.
- 1decimeter = 10 centimeters. 1 meter = 100 centimeters.
- 1decimeter = 100 millimeters. 1 meter = 10 millimeters.
 note
- Kilometer: used to measure very long distances, such as:
 - The length of the Nile River
- Meter: used to measure long objects such as: The height of a building
- The decimeter: used to measure relatively long objects such as: - The height of a door
- Centimeters: used to measure short objects such as: The length of a book
- Millimeter: It is used to measure very short things, such as: - The length of an ant

	Example (1): Choose the appropriate unit to measure the length of each of the following:									
(1)	child's height									
(A)	kilometer	(B)	meter	(C)	centimeter	(D)	millimeter			
(2)	palm leng	th								
(A)	kilometer	(B)	meter	(C)	centimeter	(D)	millimeter			
(3)	The lengt	h of	a road betv	veen	two cities					
(A)	kilometer	(B)	meter	(C)	centimeter	(D)	millimeter			
(4)	Mobile ler	ngth		ı						
(A)	kilometer	(B)	meter	(C)	centimeter	(D)	millimeter			
(5)	The length of the house									
(A)	kilometer	(B)	meter	(C)	centimeter	(D)	millimeter			

• The relationship between units of length:

- When converting from a large unit to a small unit, we multiply
- Ex: 6 kilometers= meters. The solution is 6x1,000=6,000
- · When converting from a small unit to a large unit, we divide
- Ex: 7,000 cm = meters Solution 70 = 100 ÷ 7,000
- A quarter of a kilometer = 250 metres
- Half a kilometer = 500 metres
- Three quarters of a kilometer = 750 metres

Example (2) Complete							
1	1 km = metres	8	4 km = metres				
2	26 m = cm	9	3 m = cm				
3	460 cm = mm	10	20 cm = mm				
4	85 km = meters	11	611 km = meters				
5	56 m =decimeters	12	7 m =decimeters				
6	814 m = cm	13	6 m = cm				
7	12 cm = mm	14	90 cm = mm				

Example (3) Using the bar form, complete each of the following:

	km	m		m	cm		cm	mm
1	12		5	10	***************************************	9	52	***************************************
2	4		6	86		10	75	
3		5,000	7		2,000	11		60
4		43,000	8		100	12		570



Exa	mple (4): - Complete as requ	ired							
-	Arranged ascending two met								
: :	*** **********************************								
2	Descending order: 3km , 1,500m , 25,000 dm								
	*** ***********************************								
Example (5): - Complete									
1	5meters, 45 cm = 500 cm + 45	cm = 545 cm							
2	4meters, 62 cm =	cm							
	6meters, 41 cm =	=							
3	poison								
4	530cm = meters,	cm							
5	34,150meters = km	, meters							
6	315decimals = metres,	decimals							
Exa	Example (6): - Compare using (= , < , >)								
1	4metres	350cm							
2	2,500cm	250dm							
3	120dm	300metres							
4	2km	3,500metres							
5	1,400metres	670dm							
Exa	mple (7): - Complete as requ	the state of the s							
	An ant walked a distance of 4 m one hour, so how many hours ca								
1	of 1 kilometer, and how much d								
	walked for 5 hours?								
	A man found an ant house at a	depth of 8 meters. Find its							
2	depth in centimeters.								
_	acpen in continued of								
	An ant walked a distance of 500	metres, how many hours							
3	does it take it to travel 2 km?								

millimeter

(D)

kilometer

(A)

(B)



Exercises (1)

Exa	Example (1): Choose the appropriate unit to measure the									
length of each of the following:										
(1)	(1) The length of a cup of water									
(A)	kilometer	(B)	meter	(C)	centimeter	(D)	millimeter			
(2)	human he	ight								
(A)	kilometer	(B)	meter	(C)	centimeter	(D)	millimeter			
(3)	(3) The length of a road between Cairo and Alexandria									

(C)

meter

centimeter

Example (2) Complete							
1	7 km = metres	4	8 km = metres				
2	12 m = cm	5	2 m = cm				
3	510 cm = mm	6	41 cm = mm				

```
Example (3): - Complete as required

Ascending order 5m , 300cm , 210dm
```

```
An ant walked a distance of 500 metres, how many hours
does it take it to travel a distance of 3 km?
```



The third unit Lesson (2)

Measure mass

- The relationship between mass units:
- 1ton = 1,000 kg, kilogram = 1,000 grams
- Ton: to measure very large masses,

such as: - The mass of a submarine

Kilogram: to measure relatively heavy masses

such as: - human mass

The gram: for measuring very light masses

such as: - the mass of a ring

Example (1): Choose the appropriate unit to measure the mass of:										
(1)	The mass of child									
(A)	Kg	(B)	gram	(c)	Ton	(D)	otherwise			
(2)	The mass	of e	lephant			19				
(A)	Kg	(B)	gram	(c)	Ton	(D)	otherwise			
(3)	The mass	of N	1obile							
(A)	Kg	(B)	gram	(c)	Ton	(D)	otherwise			
(4)	The mass of Cup water									
(A)	Kg	(B)	gram	(c)	Ton	(D)	otherwise			

- The relationship between mass units:
- When converting from a large unit to a small unit, we multiply

Ex: 6 kilograms = g Solution 6 x 1,000 = 6,000

- · When converting from a small unit to a large unit, we divide
- Ex: 7,000 g = kg of solution 7 = 1,000 ÷ 7,000
- A quarter of a kilogram = 250 grams
- Half a kilogram = 500 grams
- Three quarters of a kilogram = 750 grams



Exa	mple (2) Complete		
1	1kg = g	6	22 tons = kg
2	3 tons = kg	7	130,000kg = tons
3	2,000kg = tons	8	75,000gm = kg
4	6,000gm = kg	9	91 tons = kg
5	14 kg = g	10	12,000kg = tons

Example (3) Using the bar form, complete each of the following

	kg	gm			
1	5	*******			
2	23				
3		5,000			
4		43,000			

	kg	gm			
5	10	********			
6	64	***************************************			
7		8,000			
8	*******	11,000			

	kg	gm
9	52	
10	75	
11		20,000
12	*******	79,000

Exa	mple (4): - Complete as required	
1	5kg , 7,300gm , 2,000 gm	in ascending order
2	1,500 kg , 500 g , 2 tons	In descending order



Example (6): - Compare using $(= , < , >)$		
1	4kg	350g
2	2,500kg	250tons
3	120kg	300g
4	2tons	3,500gm

Exa	Example (7): - Complete as required			
	Rouaa and Eman took a sample from ant colonies, their			
1	weight was 26 kg, 200 g Write these weights in grams.			
2	If Farid's mass is 80 kg, and Iman's mass is 67,250 g. Find the sum of their masses.			
_	The sum of their masses = kg, g			

Example (8) Complete the bar forms

(2) (1)638cm 567cm 3 cm

4m, 43 cm ...m,...cm

...m,...cm

87,421 gm 32,506 gm (5) 4,234 gm

....kg,...gmkg,...gmkg,...gm

21,731 kg (8) 8,621 kg 5,612 kg (7)

...tons,...kg ...tons,...kg ...tons,...kg



Exercises (2)

Exa	mple (1): Cl	hoose	e the approp	riate	unit to measu	re th	e mass of:
(1)	The mass	of w	heel				
(A)	Kg	(B)	gram	(c)	Ton	(D)	otherwise
(2)	The mass	of a	nail				
(A)	Kg	(B)	gram	(c)	Ton	(D)	otherwise
(3)	The mass	of la	aptop			ăr r	
(A)	Kg	(B)	gram	(c)	Ton	(D)	otherwise
(4)	The mass	of re	efrigerator				
(A)	Kg	(B)	gram	(c)	Ton	(D)	otherwise

Example (2) Complete				
1	12kg = gm	6	52 tons = kg	
2	43 tons = kg	7	kg = 24 tons	
3	26,000kg = tons	8	48,000gm = kg	
4	9,000gm = kg	9	92 tons = kg	
5	kg = 13,000 gm	10	kg = 10 tons	

Example (3) Using the bar form, complete each of the following:

	kg	gm		kg	gm		kg	gm
1	3		5	13		9	71	
2	73		6	41		10	49	
3		98,000	7		64,000	11		50,000
4		3,000	8		51,000	12		92,000



Exa	mple (4): - Complete as req	uired
1	4kg, 5,600gm, 3,000gm	in ascending order
2	3,700 kg, 90,000 g, 4 tons	In descending order

Example (5): - Complete					
1	43tons, 515 kg = kg				
2	61kg, 522 gm = gm				
3	51tons, 982 kg = kg				
4	61,000gm = kg, gm				
5	81,525gm = kg, gm				
6	723,748gm = kg, gm				

Exan	Example (6): - Compare using $(= , < , >)$			
1	4kg and 100 grams	35,000gm		
2	22,500kg	2tons and 300 km		
3	2kg and 430 gm	4,200gm		
4	2tons	3,500gm		

Exa	Example (7): - Complete as required		
1	Malak and Rawda took a sample from ant colonies, their weight was 13 kg, 250 gm Write these weights in grams.		
2	If Muhammad's mass is 30 kg, and Hana's mass is 35,250 g. Find the sum of their masses. The sum of their masses =		



The third unit Lesson (3)

capacity

- The relationship between capacitance units:
- 1 liter = 1,000 milliliters
- Capacity: the amount of liquid that something contains
- Liter: to measure the capacity of large containers such as: - Water bottle
- Milliliters: to measure the capacity of small containers such as: a medicine container

	Example (1): Choose the appropriate unit to measure the capacity of each of the following:				
(1)	Small juice box capacity				
(A)	liter (B) milliliter				
(2)	Medicine box capacity				
(A)	liter (B) milliliter				
(3)	Water heater capacity				
(A)	liter (B) milliliter				
(4)	Water cup capacity				
(A)	liter	(B)	milliliter		
(5)	Water tank capacity				
(A)	liter (B) milliliter				

- The relationship between capacitance units:
- When converting from a large unit to a small unit, we multiply
 - Ex: 6 liters = milliliters Solution 6 x 1,000 = 6,000
- ·When converting from a small unit to a large unit, we divide

Ex: 7,000 milliliters = liters of solution 7 = 1,000 ÷ 7,000

- A quarter of a liter = 250 milliliters
- Half a liter = 500 milliliters
- Three quarters of a liter = 750 milliliters



Exa	Example (2) Complete				
1	6liters = milliliters	6	42 liters = milliliters		
2	13 liters = milliliters	7	41,000milliliters = liters		
3	31,000milliliters = liters	8	72,000milliliters = liters		
4	4,000milliliters = liters	9	53 liters = milliliters		
5	83 liters = milliliters	10	62,000milliliters = liters		

Example (3) Using the bar form, complete each of the following:

	Liter	milliliters		Liter	milliliters		Liter	milliliters
1	52		21	36	********	1	42	
2	75		2	72	**********	2	26	**********
3		40,000	3		9,000	3		9,000
4		25,000	4		64,000	4		64,000

Exa	Example (4): - Complete as required			
1	Ascending order: 5 liters, 5,300 milliliters, 2,000 milliliters			
2	In descending order 3,500 liters, 700 milliliters, 4 liters			

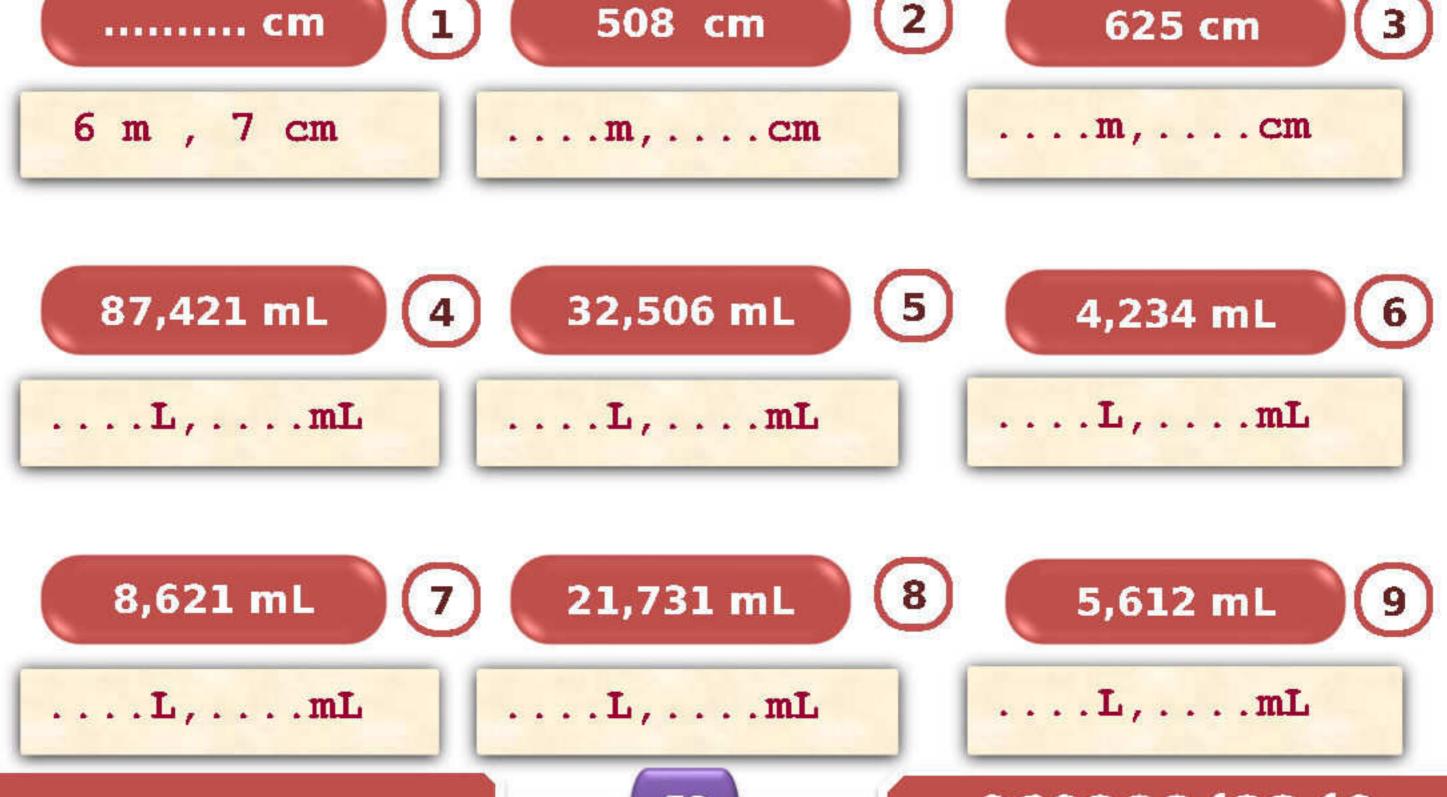
Exa	Example (5): - About what comes as an example				
1	5liters, 45 milliliters = 5,000 milliliters + 45 milliliters = 5,045 milliliters				
2	3liters, 51 milliliters =				
3	7liters, 451 milliliters = milliliters				
4	62,000milliliters = liters, milliliters				
5	8,134milliliters = liters, milliliters				
6	415,132milliliters = liters, milliliters				



Example (6): - Compare using($=$, $<$, $>$)				
1	2liters and 700 milliliters	3,500milliliters		
2	2,500liters	2liters and 300 milliliters		
3	4liters and 200 milliliters	4,200milliliters		
4	4liters	4,300milliliters		

Ex	ample (7): - Complete as required
1	A family drank 1 liter and 400 ml of orange juice at breakfast. If there were 4 liters of juice, find the remainder of the juice.
2	The fuel tank is full of 30 liters and 300 ml of petrol remains at the end of the day 20 liters and 130 ml Find the amount that was used.
3	The car is filled with 250 liters of petrol. Find the number of milliliters used.

Example (8) Complete the bar forms





Exercises (3)

Example (1): Choose the appropriate unit to measure the capacity of each of the following:

Charles and the later of the la	Cach of the following:				
(1)	Soda bottle capacity				
(A)	liter	(B)	milliliter		
(2)	Juice cup capacity				
(A)	liter (B) milliliter				
(3)	fuel tank capacity				
(A)	liter	(B)	milliliter		

Exa	Example (2) Complete			
1	24 L = mL	3	10,000mL = L	
2	62 L = mL	4	89,000 mL = L	

Exa	Example (4): - Complete as required				
1	Ascending order	4 liters, 2,300 milliliters, 1,000 milliliters			
72 - 16 26	***************************************	***************************************			

Exa	Example (7): - Complete as required		
1	The car is filled with 43 liters of petrol. Find the number of milliliters used.		
2	The fuel tank is full of 25 liters and 400 ml of petrol remains at the end of the day 15 liters and 200 ml Find the amount that was used .		

The third unit Lesson (4)

What's the time? (units of time)

• The relationship between units of measurement of time:

- 1 week = 7 days , 1 day = 24 hours
- An hour = 60 minutes , a minute = 60 seconds
- An hour = 3,600 seconds , a day = 1,440 minutes
- Half an hour = 30 minutes, a third of an hour = 20 minutes
- A quarter of an hour = 15 minutes
- three quarters of an hour = 45 minutes
- Example (1) What time is it in each of the following?







Example (2) Complete

	A week and 5 days = days	6	Two hours and 15 min = min
2	4 days and 7 hours = hours	7	1hour and 20 seconds = seconds
3	96 hours = days	8	28days = week
4	8hours = min	9	72hours = days
5	7 min = sec	10	600 min = hour

Example (3) Using the bar form, complete each of the following:

		min	sec		days	hours		week	days
	1	1		5	1	***********	9	1	
	2	2		6	2	*************	10	3	***************************************
15	3		180	7		72	11		35
	4		240	8		96	12		70

Aa	mple (4): - Comple	te as requir	eu
1	5weeks , 51 days		, in ascending order
2	2 weeks , 13 days	, 96 hours	Descending order

Exa	Example (5): - About what comes as an example				
1	9hours, 15 minutes = $(9 \times 60) + 15 = 540 + 15 = 565$ min				
2	5hours, 20 minutes = minute				
3	5minutes, 18 seconds =second				
4	5weeks, 3 days =day				
5	6weeks, 14 days =week				
6	24days = a week, a day				

Exa	Example (6): - Compare using $(= , < , >)$			
1	11days	two weeks		
2	124minutes	An hour and a half		
3	93seconds	two minutes		
4	day, two hours	26hours		

Exa	Example (7): - Complete as required		
1	Ahmed spent 15 minutes on the field, how long did it take in seconds?		
2	The lesson lasted 30 minutes. How many hours did the class last?		
3	Sarah went to the summer resort for 5 days and 15 hours. How much is the time in hours?		

Exercises (4)

Exa	mple (1) Complete		
1	3weeks and 3 days = days	4	180 min = hours
2	3 days and 9 hours = hour	5	12 min = sec
3	48hours = days	9	21days =week

Exa	mple (2):	- Complet	te as require	d
1	20		96 hours,	in ascending order
2			s , 28 hours	Descending order

Exa	Example (5): - About what comes as an example					
1	3days, 20 hours = hours					
2	5hours, 20 minutes = minute					
3	3minutes, 20 seconds =second					
4	30days = a week, a day					

Example (6): - Compare using (= , < , >)			
1	11days	two weeks	
2	124minutes	An hour and a half	

Exa	mple (7): - Complete as required
1	Ahmed spent 20 minutes on the field, how long did it take in seconds?
2	Ruqaya went to the summer resort for 3 days and 20 hours. How much is the time in hours?

The third unit Lesson (5)

How much time does it take? (Elapsed time)

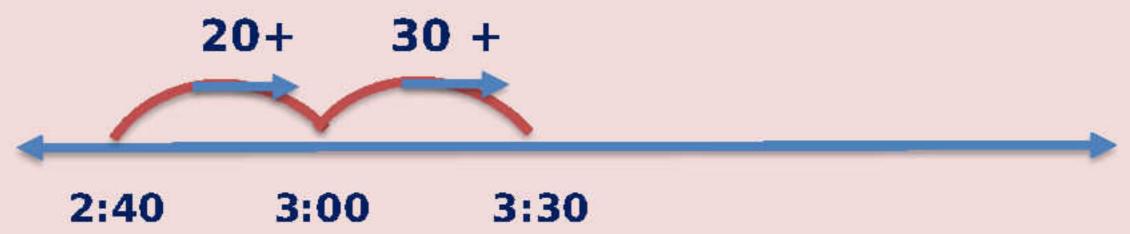
Number line strategy:

Use the number line by addition

Solution methods

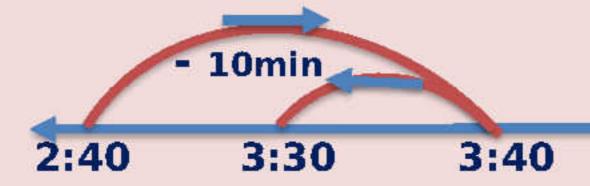
Laila is shopping at the mall, and it took 2 hours and 40 min For lunch in the restaurant 50 minutes how long did it take

Using addition: 2 hours 40 minutes, 50 minutes



The time taken is = 3:30

Using subtraction: 2 hours 40 minutes, 50 minutes
 + 1 hour



The time taken is = 3:30

 Addition without using a number line Hours: Minutes

2 : 40 : 50 2 : 90

The time taken is = 3:30

Subtract the hours and minutes Hours: Minutes

.

7 : 50

1 : 40

Example (1) Complete

Example (2): - Complete

Example (3): - Complete as required

If the procession moving the antiquities from the Egyptian Museum at 9:00 pm and stayed 30 minutes in its path until

1 the end, then the time of arrival of the procession to the National Museum of Civilization is

-----p.m

If Fayrouz started her study at 3:30 pm and finished at 1:30 pm 6:00p.m. What is the time spent studying?

2

	A train departed from the city of Zagazig at 15:5, and arrived
3	in Cairo at 7: 30 Calculate the time of the train journey.

	It takes Ali an hour and 15 minutes a day to get ready to go
	to work. If he takes a shower for 30 minutes, how much time
4	does Ahmed have left?
	Ruaa allocated 5 hours to perform three household chores,
	The duration of the first action is 1 hour and 22 minutes, and the duration of the second action is 2 hours and 15 minutes.
	And the duration of the third work is an hour and 40 minutes
	• Do you have sufficient time visions to perform the three
5	tasks?
###	******************
	• If Ro'a decides to do the least two household chores in
	terms of time, if Ro'a starts at 5:10 in the morning, when will
	she finish doing the two chores?
	An ant works from 8:08 am to 11:32 am, how long does the
6	ant work?

	The first nap of an ant starts at 6:35 am and lasts for 60
	seconds
	• When does the ant wake up?
7	***************************************
	•The ant then works in the colony for 2 hours and 15 minutes
	before taking The second nap, so when does she take her
	second nap?
	One of the runners ran for two hours, 45 minutes
8	9:10 a.m., the hour ends.

Exercises (5)

Example (2): - Complete				
1	5:53p.m -> 7:43 p.m -> Elapsed time			
2	2:21 a.m -> 6:41 a.m -> Elapsed time			
3	9:32p.m -> 4:25 a.m -> Elapsed time			
4	7:47a.m -> 3:41 a.m -> Elapsed time			

Example (3): - Complete as required		
1	A train departed from the city of Zagazig at 4:25 a.m , and arrived in Cairo at 6:30a.m Calculate the time of the train journey.	
2	If Fayrouz started her study at 4:30 pm and finished at 5:00 p.m. What is the time spent studying ?	
3	One of the runners ran for 1 hour, 35 min If the clock starts running 8:15 a.m , the hour ends.	
4	It takes Ali every day 1 hour and 10 minutes to get ready to go to work. If he takes a shower for 20 minutes, how much time does Ahmed have left?	

Measure the world around me 1, 2

The third unit Lesson (6-7)

Ex	ample (1) Complete
1	Maryam drinks 3,500 milliliters of water a day? How many
	milliliters do you drink in 4 days?
	The number of milliliters that Maryam drank =
	Sameh exercises every day for half an hour. Calculate the
	number of minutes
2	Sameh spends it doing sports in 3 days.
	Half an hour= a minute
	Total minutes = x min
	A 5 liter fish tank with 3,000 milliliters of water in it. How
	many liters of Water do we need to fill the entire fish tank?
3	The volume of water contained in liters =
3	
	The number of liters we need =
	= liters
	Tamer runs 3 kilometers every day. How many kilometers
4	does Tamer run in a week?
	The number of kilometers that Tamer runs =
	Mahmoud studies mathematics every day for 40 minutes,
5	how many hours Which Mahmoud spends studying
	mathematics for 5 days?
	= x = minutes
6	Musaab bought 36 kilograms of oranges and wants to
	distribute them evenly among 6 bags. How many kilograms
	are in each bag?
	Number of kilograms in each bag =

Exercises (6)

Exa	mple (1) Complete
1	A fast ant walks 4 km a day. What distance does the ant travel in 32 days in metres?
2	Basem's family buys 5 liters of milk every week, so if the family drinks 2,222 liters of it milliliters. Find the rest of the milk in millilitres.
3	Ahmed has a piece of wood 12 meters long that he wants to cut into 3 equal pieces Find the length of each piece in metres, then find its length in centimeters.
4	The ant walks 5,222 meters every day while it is going to search for food. How many kilometers does the ant walk in 6 days?
5	She bought a king of 3 kg and 370 grams of tomatoes and she bought potatoes less than the mass of tomatoes by 1,200 grams Calculate the mass of potatoes and tomatoes together potato mass =
6	Muhammad reads the Qur'an every day for a quarter of an hour. What is the total number of minutes he spends reading in 4 days?
7	Sama plays on the bike from 5:15 pm to 7:25 pm. How long did she spend playing the game?
8	A fish tank with a capacity of 15 liters and 3,000 ml of water poured into it, how many liters do we need to fill the tank completely?

Exam (unit three)

Example (1) Choose the correct answer							
(1)	5m, 34 cm = cm						
(A)	543	(B)	534	(C)	5,340	(D)	5,034
(2)	Lit	ers =	3,000 millili	ters.		a	
(A)	2	(B)	3	(C)	30	(D)	300
(3)	53kg =		. g				
(A)	53,000	(B)	2,030	(C)	20,030	(D)	5,000
(4)	An hour and	a thi	rd of an hour	· =	a r	ninu	te
(A)	40	(B)	20	(C)	55	(D)	80
(5)	Two days and	d two	hours		= an hou	r	
(A)	30	(B)	50	(C)	18	(D)	6
(6)	7liters, 780 ml - 150 ml = ml						
(A)	5,370	(B)	6,000	(C)	370	(D)	6,370
(7)	If the first half of the match started at 8:25 pm and ended at 9:33 pm, it would have taken minutes						
(A)	42	(B)	45	(C)	48	(D)	53

Example (2): - Complete		
1	15decimals = cm	
2	5kg, 700 grams = grams	
3	In a jug containing 10 liters of water, the volume of water in milliliters =	
4	4minutes and 20 seconds = seconds	
5	10: 3 + 42 minutes =	
6	4liters, 52 ml = ml	
7	8meters, 1 decimeter = decimeter	
8	72hours = days	

Example (3) Choose the correct answer							
(1)	5kg - 3,420 g = g						
(A)) 1,580 (B) 4,580 (C) 3,580 (D) 5,58						5,580
(2)	250ml, 7 lit	ters	=		g		
(A)	725	(B)	7,250	(C)	2,750	(D)	5,270
(3)	Adel spends of school day in			. If w	e want to calc	ulate	e Adel's
(A)	We add 6 with (R) We add 6 to (C) We multiply 6 (D) We multip						We multiply 6 by 24
(4)	A juice box has a capacity of 1 liter and 500 ml, then its capacity in milliliters = ml						
(A)	150	(B)	1,500	(C)	15,000	(D)	1,005
(5)	3weeks and	d 5 c	days				
(A)	21	(B)	24	(C)	25	(D)	26
(6)	8km, and 50 meters = meters						
(A)	5,800	(B)	850	(C)	8,050	(D)	8,500
(7)	9liters and 575 ml = ml						
(A)	9,575	(B)	5,759	(C)	584	(D)	575

Example (4): - Complete as required		
1	Muhammad started work at 7:15 AM and finished at 10:55 AM Calculate the time spent at work.	
2	Abeer has a 5 liter juice bottle, if she consumes 3,650 ml of it, how many milliliters are left in the bottle?	
3	An ant walks 4 kilometers in one day. If the ant continues to walk for 5 days, what is the distance it travels in meters?	
4	Arrange in ascending order: 3 meters, 999 cm, 8 mm, 8 km	

Unit four Lesson (1)

Perimeter (measurement of lengths)

Rectangle

- Rectangle: It is a quadrilateral in which all two opposite sides are equal in length and its four angles are equal in measure, and the measure of each of them = 90 degrees.
- Perimeter of the rectangle:
 is the length of the line that borders it from the outside .
- The perimeter of a rectangle =
 the sum of the lengths of its sides
 W

w

- Perimeter of the rectangle = (length + width) x 2
- Perimeter of the rectangle = (L + W) x 2

Square

Square: It is a quadrilateral in which all its sides are equal in length and its four angles are equal in measure, and the measure of each of them = 90 degrees.

- Perimeter of the square:
 is the length of the line that borders it from the outside
- The perimeter of a square =
 the sum of the lengths of its sides.
- perimeter of the square = side length x 4
- Perimeter of the square = 4 x S



S

examp	le
-------	----

rectangle has a length of 5 cm and a width of 3 cm. find its perimeter.

- Perimeter of the rectangle = (length + width) $\times 2 = (5+3)\times 2$ = $8 \times 2 = 16$ cm
- A square of side length 5 cm. find its perimeter.
- Perimeter of the square = side x 4 = 5 x 4 = 20 cm

Example (1) Find the perimeter

- A rectangle of length 10m and width of 5m.find its perimeter.
- Perimeter of the rectangle =
 - rectangle of length 5cm and width of 4cm.find its perimeter.
- Perimeter of the rectangle =
- A square of side length 4 cm. find its circumference.
- Perimeter of the square =
- A square of side length 7 dm. find its circumference.
 - Perimeter of the square =
- A square of side length 13 m. find its circumference.
 - Perimeter of the square =.....

Example (2) Find the perimeter of the figure

- 9 m Perimeter of the rectangle =
- 2



E>	cample	(3) Fin	d the perimeter of the figure
1	4 cm		Perimeter of the square =
2	8 m		Perimeter of the square =
3	5 dm		Perimeter of the square =
4	8 m		Perimeter of the square =

E	(ample (4) Complete as required
1	A garden in the form of a square with a side length of 7 meters.
2	A rectangle with a length of 7 dm and a width of 5 dm. find its perimeter.
3	A rectangular court with dimensions of 9 m and a width of 6 m. find its perimeter.
4	A square has a perimeter of 32 cm, find the length of its side
E>	cample (5) Complete as required
	Draw three different shapes (square or rectangle) each with a perimeter of 20 cm
1	



Exercises (1)

Example (1) Find the perimeter		
1	A rectangle of length 3m and width of 2m.find its perimeter.	
	Perimeter of the rectangle=	
2	rectangle of length 7cm and width of 4cm.find its perimeter.	
	Perimeter of the rectangle=	
3	rectangle of length 5cm and width of 1cm.find its perimeter.	
	Perimeter of the rectangle=	
	A square of side length 8 cm. find its circumference.	
4	Perimeter of the square =	
5	A square of side length 9 dm. find its circumference.	
	Perimeter of the square =	
6	A square of side length 12 m. find its circumference.	
	Perimeter of the square =	

Example (2) Find the perimeter of the figure		
	8 cm	Perimeter of the rectangle =
1	4 cm	***************************************
Hamile	9 m	Perimeter of the rectangle =
2	2 m	***************************************
220	5 dm	Perimeter of the rectangle =
3	4dm	***************************************
	5 cm	Perimeter of the rectangle =
4	3cm	***************************************
44-51	20 cm	Perimeter of the rectangle =
5	10cm	***************************************



Example (3) Find the perimeter of the figure			
1	6 cm		Perimeter of the square =
2	3 m		Perimeter of the square =
3	1 dm		Perimeter of the square =
4	11 mm		Perimeter of the square =

Example (3) Complete as required			
1	A garden in the form of a square with a side length of 8 meters.		
2	A rectangle with a length of 5 dm and a width of 2 dm. find its		
	perimeter.		
3	A rectangular court with dimensions of 6 m and a width of 4 m.		
	find its perimeter.		
	A square has a perimeter of 12 cm, find the length of its side		
4			
E>	cample (4) Complete as required		
	Draw three different shapes (square or rectangle) each with a		
	perimeter of 10 cm		
1			



First term

Unit four Lesson (2)

Area

Rectangle

- Area: is the number of square units that make up the shape.
 - The area of the rectangle =
 is the number of square units that make up the figure.
- Area of the rectangle = Length x Width
- Area of the rectangle = L x W

	3
	1

Square

- Area: is the number of square units that make up the shape.
 - The area of the square =
 is the number of square units that make up the shape.
 - Area of the square = side length × side length.
 - Area of the square = S × S.

Measurement units

- The units of perimeter (P) are:
 Centimeter, meter, decimeter, millimeter.
- The units of area (A) are:

square centimeter, square meter, square decimeter, square mm

example

A rectangle has a length of 5 cm and a width of 3 cm. find its area.

The area of the rectangle = length x width = $5 \times 3 = 15 \text{ cm}^2$

- A square of side length 5 cm. find its area.
- The area of the square = side x side = $5 \times 5 = 25 \text{ cm}^2$

First term



Example (1) Complete		
A rectangle of length 10 m and width of 5 m. find its area.		
Area of the rectangle =		
A rectangle of length of 5cm and a width of 4cm.find its area		
Area of the rectangle =		
A rectangle of length of 7cm and a width of 2 cm.find its area		
Area of the rectangle =		
A square of side length 4 cm. find its area.		
Area of the square =		
A square of side length 7 dm. find its area.		
Area of the square =		
A square of side length 13 m. find its area.		
Area of the square =		
A rectangle of length of 6cm and a width of 3cm.find its area.		
Area of the rectangle =		

Example (2) Find the area of the figure			
	8 cm	Area of the rectangle =	
	4 cm	***************************************	
	8 dm	Area of the rectangle =	
2	4 dm	***************************************	
	8 m	Area of the rectangle =	
3	4 m	***************************************	

E	Example (3) Find the area of the figure				
	L	4 cm		Area of the square=	
	2	8 m		Area of the square=	
	3	5 dm		Area of the square=	
				Area of the square=	
4	4	9 mm			
Ex	an	nple (4) Com	plete as required	
1	A	garden	in the fo	rm of a square with a side length of 7 m.	
281.0	A			1	
2		rectanç ea.	gie with a	length of 6 dm and a width of 3 dm. find its	

	A	rectang	gle with a	length of 7 dm and a width of 5 dm. find its	
3	area.				
): 1			***************************************	
4	A	square	has an a	rea of 25 cm ² , find the length of its side	
	111			***************************************	
Example (5) Complete as required					
			The state of the s	ent shapes (square or rectangle) each with an	
1	ar	ea of 1	6 cm ²	The state of the s	

	***			***************************************	



Exercises (2)

Example (1) Complete			
1	A rectangle of length 3 m and width of 2 m. find its area.		
	Area of the rectangle =		
2	A rectangle of length of 7cm and a width of 4cm.find its area		
	Area of the rectangle =		
	A rectangle of length of 5cm and a width of 1 cm.find its area		
3	Area of the rectangle =		
	A square of side length 8 cm. find its area.		
4	Area of the square =		
5	A square of side length 9 dm. find its area.		
	Area of the square =		
0.2420	A square of side length 12 m. find its area.		
6	Area of the square =		

Example (2) Find the area of the figure		
_	6 cm	Area of the rectangle =
1	2 cm	***************************************
11220	7 dm	Area of the rectangle =
2	3 dm	***************************************
	9 m	Area of the rectangle =
3	3 m	***************************************
	8 dm	Area of the rectangle =
4	2 dm	***************************************
	10 m	Area of the rectangle =
5	5 m	***************************************



Exa	ample (3) Find the area of the fig	ure
1	6 cm Area of the square	re=
2	Area of the squar	re=
3	1 dm Area of the square	re=
4	Area of the squared the square	re=

Ex	ample (4) Complete as required
1	A garden in the form of a square with a side length of 8 m.
2	A rectangle with a length of 5 dm and a width of 2 dm. find its area.
3	A rectangle with a length of 6 m and a width of 4 m. find its area.
4	A square picture with a side length of 8 cm. If Hussein wanted to buy a piece of glass to cover this picture. What is the area of the piece of glass used?
5	A square table of side length 2 metres . find its area
6	A square whose perimeter is 12 cm, find the length of its side



Unit four lesson (3)

Unknown dimensions

Rectangle

- If I have the Perimeter, find it as follows
 Length of rectangle = half of the perimeter width
 Width of a rectangle = half of the perimeter length
- If I have the area, find it as follows
 Length of rectangle = Area ÷ Width
 Width of rectangle = Area ÷ length

Square

- Side length = perimeter ÷ 4
 Example: A square has a perimeter of 20 cm
 Side length = 4 ÷ 20 = 5 cm
- If I have the area of the square, find the length of the side as follows

Example: A square has an area of 25 cm²
I ask myself what is the number that I multiply by itself and the result is 25
So the length of the side = 5 cm

Example

A rectangle has a perimeter of 20 m and a width of 4 m. find its length

- 1 Half perimeter = 10 cm
 - Length of the rectangle = half of the perimeter width = 4 10 = 6 cm

A rectangle has an area of 20 square meters and a width of 4 meters. find its length

Length of rectangle = Area \div Width = $4 \div 20 = 5$ cm



Exa	nple (1) Complete					
	8 cm Half perimeter =					
1	P=30 cm width =					
	15 cm					
2	P=44 cm width =					
	6 cm					
3	A = 30 cm ² width =					
	7 cm					
4	A = 28 cm ² width =					
	P=44 side of the square =					
5	cm					

	side of the square =					
6						
O	16 cm ²					
	A = side of the square =					
7	64 cm ²					

Ex	ample (2) Complete as required
1	A square with a perimeter of 40 cm has an area of. the side of the square = The area = The area
2	A square with a perimeter of 36 cm has an area of. the side of the square =
3	A square has an area of 81 cm ² , then its perimeter is. Side of square =
4	A square has an area of 81 cm ² , then its perimeter is. Side of square =
5	A rectangle has an area of 10 cm ² , find its perimeter if its width is 2 cm. Length=

First term

6	A rectangle has an area of 60 dm², find its perimeter if its length is 10 dm . width =
7	A rectangle has a perimeter of 60 dm, find its area if its length is 20 dm. width =
8	A rectangle has a perimeter of 40 dm, find its area if its length is 11 dm. width =
9	A rectangle whose width is 3 cm and its length is twice its width, then its length =
10	A rectangle whose length is 8 cm and whose width is half its length, then its width =
11	Muhammad wants to build a barn for goats in the form of a rectangle, its area is 72 square meters, and one of its sides is 12 meters. Determine the width in meters. Then find the perimeter of the barn.
12	Karim wants to build a fence around his garden, and the width of the fence is 20 meters, and he needs 100 meters of wire to surround his garden. Find the length of the garden

Exercises (3)

Ex	ample (1) Complete				
2.22	4 cm Half perimeter =				
1	P=12 cm width =				
	4 cm				
2	$\Lambda = 1.7 \text{ cm}^2$				
	width =				
	P=40 side of the square =				
3	cm				
	Square area =				
	side of the square =				
	A = Side of the square				
4	1 cm ² Perimeter square =				
Ex	cample (2) Complete as required				
1	A square with a perimeter of 8 cm has an area of.				
1944	the side of the square =				
2	A square has an area of 49 cm ² , then its perimeter is. Side of square =				
	A rectangle has an area of 40 cm ² , find its perimeter if its				
_	Length is 10 cm.				
3	dth =				
	Perimeter of the rectangle=				
	A rectangle has a perimeter of 40 dm, find its area if its length				
4	is 15 dm.				
	idth = ne area of the rectangle=				
	A rectangle has a perimeter of 40 dm, find its area if its length				
5	is 15 dm.				
3	dth =				
	Perimeter of the rectangle=				
6	A rectangle whose width is 5 cm and its length is twice its width, then its length =				
	Farid wants to build a stadium in the shape of a rectangle, its				
	area is 48 square meters, and one of its sides is 8 meters.				
7	Determine the width in meters. Then find the perimeter of the				
3.53	field.				

Irregular geometric shapes (compound)

Unit four Lesson (4)

Methods of solving compound shapes

- Composite shape: It is a form consisting of simple geometric shapes.
- The first method

We divide the shape into two rectangles, and calculate the area of each rectangle separately, then add the areas of the two rectangles to find the area of the shape.

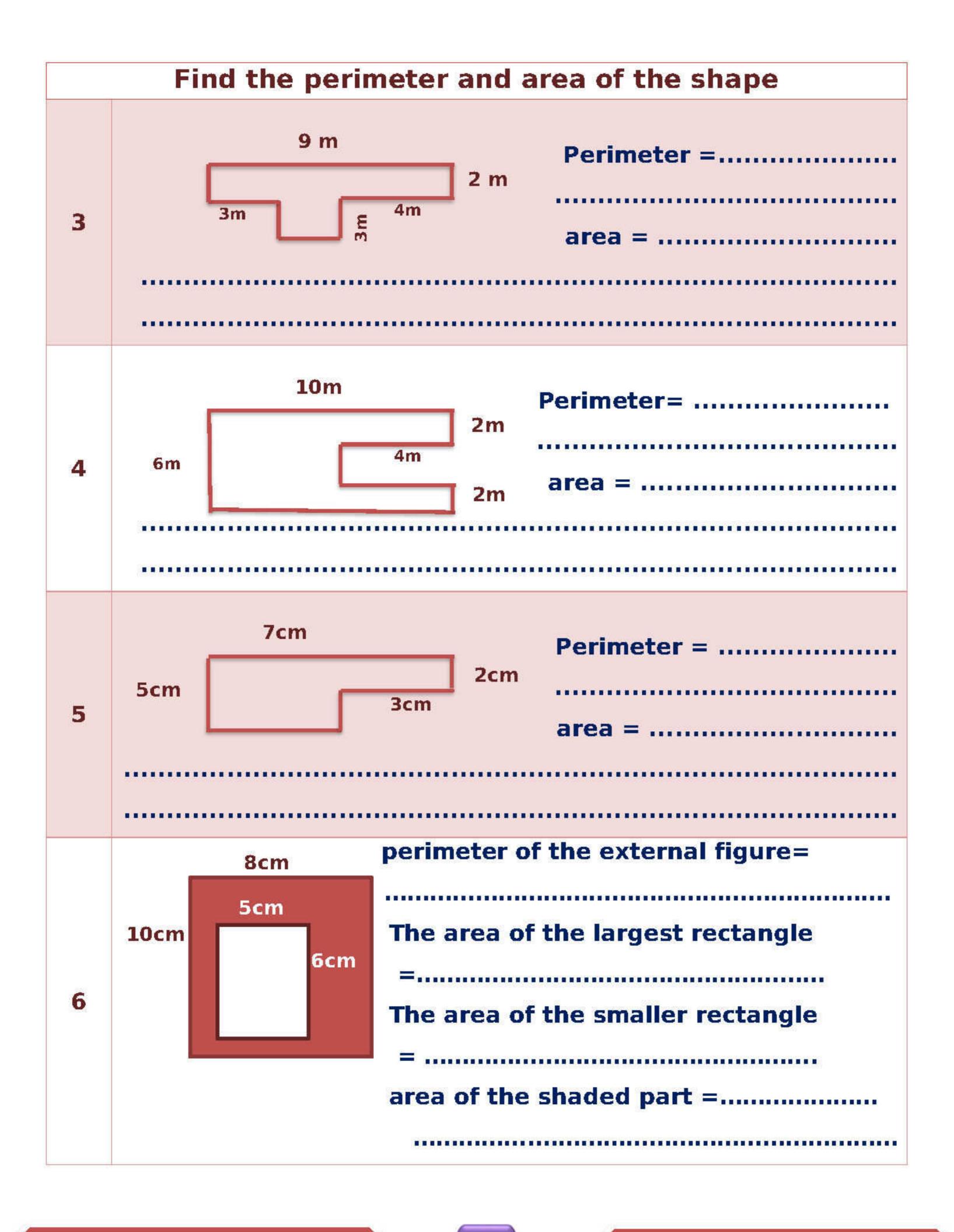
The second method

We complete drawing the shape to get a large rectangle and a small rectangle, calculate the area of the large and small rectangles, then subtract the two areas to find the area of the shape.

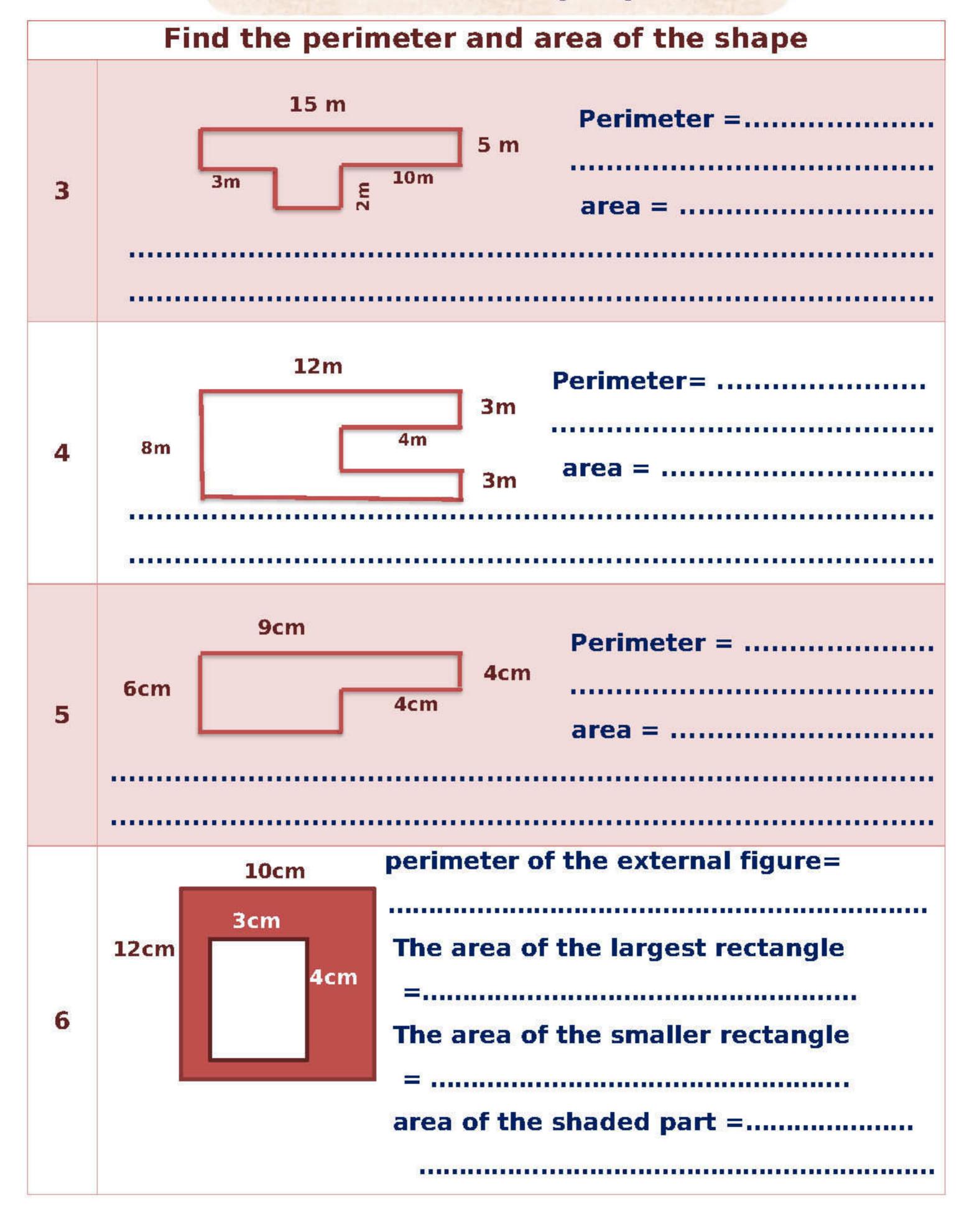
Note:

The perimeter and area of a compound figure do not change when it is divided in different ways.

	Find the perimeter and area of the shape					
	U.S.	14cm	Perimeter =			
	9cm		7cm 6cm			
1		8cm				
	The area of the largest rectangle = Area of the smaller rectangle = Area of the figure =					
		6cm	perimeter of the external figure=			
2	8cm	4cm	The area of rectangle= Square area = area of the shaded part =			



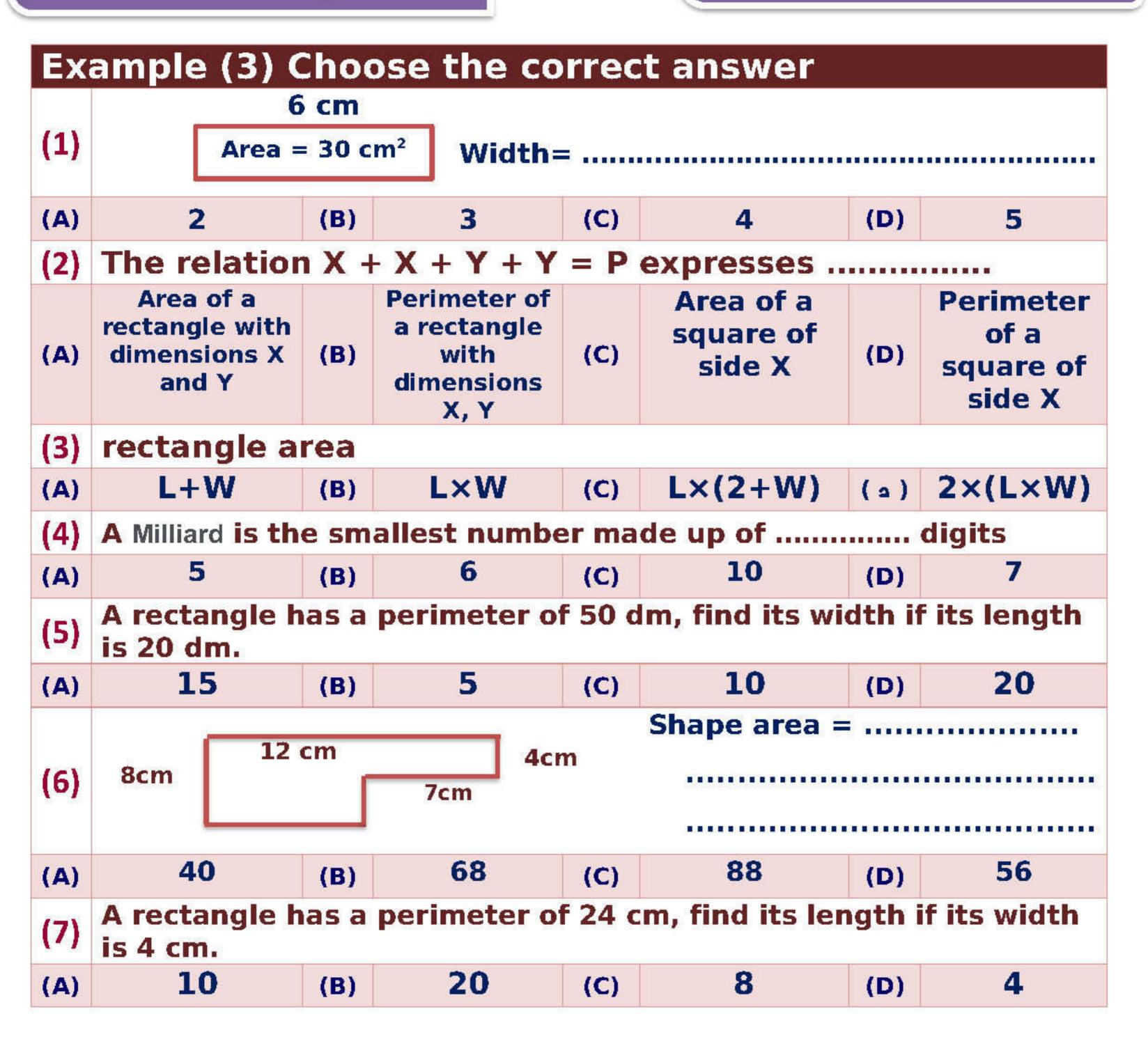
Exercises (4)



Exam (unit four)

Ex	ample (1) (Cho	ose the co	rrec	t answer		
(1)	Area of a square = side length x						
(A)	Perimeter	(B)	side length	(C)	Area	(D)	otherwise
(2)	If a rectangle has a length of 5 cm and a width of 3 cm, then its perimeter = cm						
(A)	16	(B)	15	(C)	18	(D)	8
(3)	A square who	se s	ide length is	5 cm	has a perime	ter =	cm
(A)	150	(B)	20	(C)	25	(D)	30
(4)	A square has an area of 25 cm ² , and its side length = cm						
(A)	5	(B)	50	(C)	100	(D)	10
(5)	A rectangle of length L and width W, then its perimeter = cm						
(A)	L+W	(B)	2×(L+W)	(C)	L×(2+W)	(D)	2×(L×W)
(6)	If a rectangle has a length of 20 cm and a width of 10 cm, then its area = cm ²						
(A)	30	(B)	60	(C)	120	(D)	200
(7)	A rectangular garden whose width is 5 meters and its length is 7 meters. What is the area of the garden? M ²						
(A)	24	(B)	70	(C)	35	(D)	12

Exa	ample (2): - Complete
1	A square has an area of 49 cm2, then its perimeter is. Side length of a square = Perimeter of the square=
2	Perimeter of the rectangle =
3	A rectangle with a length of 5 dm and a width of 2 dm. find its Perimeter.
4	A square of side length 8 cm. find its circumference. Perimeter of the square =
5	side length of a square = perimeter ÷
6	A square-shaped table, the side length of which is 4 m. Maryam wants to cover it with a tablecloth, so the area of the tablecloth =square metres
7	A rectangle with dimensions M cm and N cm, its area can be calculated from the relationship:
8	A square has a perimeter of 36 cm, then its side length =cm



Swimming pool in the form of a rectangle 12 m long and 8 m wide Calculate its circumference A carpet in the shape of a square with a side length of 3 m. Find its area A carpenter wants to cover a table, so if its dimensions are 4m by 6m, how many square meters of wood is needed to cover the table?

Fifth unit Lesson (1)

Understand comparison using multiplication

to learn

- Note that: 20 = 4 x 5
- We can say: 20 = 4 times the number 5
- Or 20 = 5 times the number 4

5	5	5	5

Л	А	4	Л	4
4	4	4	4	4

Example (1) Compare and write the comparative sentence

$$20,4$$
 \longrightarrow $20 = \dots$ times the number 4

$$3 = \dots$$
 times the number 1

Example (2) Rewrite each equation using multiplication as an example

$$9 = 3 \times 3 \qquad \longrightarrow \qquad 3 + 3 + 3 = 9$$

$$5$$
 = × $4 + 4 + 4 + 4 = 20$

Exa	mple (3) Find the number
1	A number equals 5 times 4 $c = 5 \times 4$
2	6 is equal to 3 times this number x = so the number =
3	A number equal to twice the number 7 x = then the number=
4	35 equals 5 times this number x = so the number =
5	28 is equal to 4 times this number x = so the number =
Exa	mple (4) Complete
1	What number is 4 times 8 ? Equation: a = 8 x 4 Solution a =
2	36 equals 6 times this number. What is the number? Equation: 36 = R x 6 Solution R=

Exa	Example (5) Complete				
1	24 is equal to 4 times the number 6, the multiplication equation =				
2	14 is equal to 7 times the number 2, the multiplication equation =				
3	60 is equal to 10 times the number 6, the multiplication equation =				

Example (6) Complete					
equals times 4					
1		<u> </u>	_	_	1
=	4	4	4	4	
	equal to	ti	mes 9		
2					
		9	9	9:	
	equal to times 7				
3		<u> </u>			1
	7	7		7	

Exercises (1)

Example (1) Compare and write the comparative sentence

1 9,3 \longrightarrow 9 = times the number 3

2 20,5 \longrightarrow $20 = \dots$ times the number 5

 $36,6 \longrightarrow 36 = \dots$ times the number 6

Example (2) Rewrite each equation using multiplication as an example

1 = × 3 + 3 = 6

2 = × 5 + 5 = 10

Example (3) Find the number

2 4 is equal to 3 times this number x = so the number =

A number equal to twice the number 6 x = then the number=.....

30 equals 6 times this number x = so the number =

Example (5) Complete

20 is equal to 4 times the number 5, the multiplication equation =

21 is equal to 7 times the number 3, the multiplication equation =

30 is equal to 10 times the number 3, the multiplication equation =

Example (6) Complete

..... times 6

1

6 6 6

..... times 9

2

9 9 9

Create equations to compare using multiplication Solve equations to compare using multiplication

Fifth unit Lesson (2 - 3)

- Muhammad ate 4 pieces of cake and Fayrouz ate 5 times more. How many pieces did Fayrouz eat?
 - Composition of the equation: $R = 4 \times 5$
 - Solve the equation: R = 20
 - What Fayrouz ate = 4 x 5 = 20 pieces
 - Note: The solution to the equation is to find the value of the unknown symbol in the equation.

Exar	Example (1) Write an equation to express each of the following			
com	comparisons Use a symbol to represent the unknown number			
1	60 is 10 times the number The equation:			
2	20 is 4 times the number The equation:			
3	A number equals 5 times the number 6 The equation:			
4	A number equals 7 times the number 5 The equation:			

Exercises (2)

Example (1) Write an equation to express each of the following comparisons Use a symbol to represent the unknown number			
	27 is 9 times the number		
1	The equation :		
	Solve the equation:		
	18 is 6 times the number		
2	The equation:		
	Solve the equation:		
	A number equals 8 times the number 3		
3	The equation:		
	Solve the equation:		

CONTRACTOR CONTRACTOR	Example (1) Write a multiplication equation that expresses the following word problems					
	Muhammad has 6 books with him, and Ahmed has three					
	times what he has. How many books does Ahmed have?					
1	The equation :					
	Solve the equation:					
	The age of a son is 6 years old, and his father's age was 5					
_	times that now, so what is the age of the father?					
2	The equation :					
	Solve the equation:					
	Ayman ate 4 figs in the morning, and his brother ate 3 times					
_	.that number					
3	The equation :					
	Solve the equation:					
	A box contains 8 green balls and the number of yellow balls					
А	is 4 times the green one.					
4	The equation:					
	Solve the equation:					
5	Find the value of the unknown symbol					
	$5 \times 9 = S$ $3 \times N = 21$ $6 \times 4 = A$					
	= S = N = A					

commutative property of multiplication Patterns of Multiplying by 10s

Fifth unit Lesson (4 - 5)

Properties of the multiplication process

commutative property

$$a \times b = b \times a$$
 , $7 \times 5 = 5 \times 7$

Zero property multiplication
 When multiplying any number by zero, the result of the multiplication is zero.

$$2 \times 0 = 0 \times 2 = 0$$
 , $235 \times 0 = 0 \times 235 = 0$

Identity property multiplication
 When multiplying any number by one, the product of the multiplication will be the same number

$$6 \times 1 = 1 \times 6 = 6$$
 , $728 \times 1 = 1 \times 728 = 728$

Associative Property in multiplication

 a × b × c = (a × b) × c = a × (b × c) = abc

 When multiplying any three numbers, the product of the product does not change by moving the brackets:

$$6 \times 2 \times 5 = (6 \times 2) \times 5 = 6 \times (2 \times 5)$$

= 12×5 = 6×10 = 60

Example (1) Use the commutative properties to complete the equation

1	4 × 9 = 9 ×	4	×5 = 5 × 8
2	1 × 5 = × 1	Ğ	7 × = 3 × 7
3	= V	£	$V \times 4 = 4 \times 6$
4	= E	4	1 × 8 = E × 8
5	= S	<u>K</u>	$S \times 15 = 15 \times 35$

```
Example (2) Complete
```

$$1 \quad \dots = 1 \times 532, \quad \dots = 16 \times 1, \quad \dots = 4 \times 0$$

Exai	Example (3) Complete				
1	7 × 0 = property				
2	5 × 1 = property				
3	x 4 = 4 x 3 property				
4	× 1 = 324 property				
5	x 4 = x 7 property				
6	× (7 ×4)=(3 × 7) ×4 property				
7	10× (× 5)= 10 × (9×5) property				

Example (4) Using properties of multiplication				
1	5 × 8 × 2 =	5	100 × 4 × 7 =	
2	25 × 9 × 4 =	6	125 × 5 × 8 =	
3	50 × 8 × 2 =	7	20 × 6 × 5 =	
4	150 × 3 × 2 =	8	10 × 4 × 7 =	

Patterns of multiplication in tens

• Important:

When multiplying any number by 1000, 100, 10
The product of the multiplication is increased by the same number of zeros

Example:

$$3 \times 10 = 30$$
 , $7 \times 100 = 700$, $9 \times 1,000 = 9,000$

Exa	Example (4) Complete				
1	$10 \times 5 = 50$	9	100 × 9 = 50		
2	10 × = 60	10	100 × = 400		
3	10 × = 800	11	100 × = 5,400		
4	10 × = 5,600	12	100 × = 10,000		
5	10 × = 2,000	13	100 × = 7,600		
6	1,000 × = 9,000	14			
7	1,000 × = 120,000	15	300 × 40 =		
8	1,000 × = 14,000	16	50 × 90 =		
Exa	mple (5) Complete				
1	20 × = 240	9	40 × = 3,200		
2	30 × = 240	10	70 × = 490		
3	800 × = 3,200	11	60 × = 5,400		
4	700 × = 5,600	12	80 × = 8,000		

5	81 × = 81,000	7	150 × = 15,000
6	1,000 × = 4,000	The second second	50 × 4 =
7	1,000 × = 31,000		82 × 10 =
8	1,000 × = 20,000	16	40 × 60 =

Exar	Example (6) Complete			
1	A family consumes 4 chickens per week, so if the price is for one chicken 100 pounds, so find the price of 4 chickens.			
2	If the mass of a child is 5 kg, and the mass of an elephant is 100 times the mass of the child, find the mass of the child.			
3	If the price of buying an electrical device is 500 pounds, then what are 10 devices of the same type?			
	The number that is equal to 10 times the number 45 is			
4	Alia has 40 books. Write an equation using the commutative property of multiplication to describe two ways she can arrange the books.			

Exercises (3)

Example (1) Use the commutative properties to complete the equation				
1			×12 = 12 × 23	
2	1 × 9 =	× 1	5 × = 2 × 5	
3		=	$V V \times 3 = 3 \times 5$	
4		=	$\mathbf{E} \qquad \qquad 1 \times 4 = \mathbf{E} \times 4$	
5	******	=	$S \times 22 = 22 \times 26$	
Exa	mple (2) Complete			
1	= 1 × 636 .		= 14 × 1 = 6 × 0	
Exa	mple (3) Complete			
1	0 =x 9 pro	pert	y	
2	1 =x 3 pro	pert	y	
3	x 5 = 5 x 6 pro	pert	y	
4	1 = 672x pro	pert	y	
5	x 6 = x 3 pro	pert	:y	
Exa	mple (4) Complete			
1	10 × 5 =	5	100 × 9 =	
2	10 × = 300	6	100 × = 800	
3	10 × = 210	7	100 × = 3,500	
4	10 × = 3,700	8	100 × = 20,000	
Example (5) Complete				
1	80 × = 240	2	70 × = 14,000	
3	700 × = 3,500	4	30 × = 2,700	
5	1,000 × = 6,000	6	30 × 40 =	



Exa	Example (6) Using properties of multiplication			
1	5 × 8 × 2 =	5	100 × 4 × 7 =	
	***********	_		
2	25 × 9 × 4 =	6	125 × 5 × 8 =	
3	50 × 8 × 2 =	7	20 × 6 × 5 =	
4	150 × 3 × 2 =	8	10 × 4 × 7 =	

Exar	xample (6) Complete			
1	A family consumes 3 chickens per week, so if the price is for one chicken 200 pounds, so find the price of 3 chickens.			
2	If the mass of a child is 13 kg, and the mass of an elephant is 100 times the mass of the child, find the mass of the child.			
3	If the price of buying an electrical device is 400 pounds, then what are 100 devices of the same type?			
4	The number that is equal to 100 times the number 17 is			
5	Alia has 30 books. Write an equation using the commutative property of multiplication to describe two ways she can arrange the books.			

Associated Property

Fifth unit Lesson (6)

Associative Property in multiplication

$$a \times b \times c = (a \times b) \times c = a \times (b \times c) = abc$$

When multiplying any three numbers, the product of the product does not change by moving the brackets:

$$6 \times 2 \times 5 = (6 \times 2) \times 5 = 6 \times (2 \times 5)$$

= 12×5 = 6×10 = 60

Example (1) Use the commutative properties to complete the equation

$$1 \quad 4 \times 2 \times 3 = 4 \times (2 \times 3) = 4 \times 6 = 24$$

$$2 \times 4 \times 7 = \dots \times (\dots \times \dots) = \dots \times \dots = \dots$$

$$7 \times 2 \times 8 = \dots \times (\dots \times \dots) = \dots \times \dots = \dots$$

$$\mathbf{4} \quad \mathbf{6} \times \mathbf{3} \times \mathbf{4} = \dots \times (\dots \times \dots) = \dots \times \dots = \dots$$

6
$$10 \times 4 \times 7 = \dots \times (\dots \times \dots) = \dots \times \dots = \dots$$

7
$$100 \times 2 \times 8 = \dots \times (\dots \times \dots) = \dots \times \dots = \dots$$

Example (2) Complete



Exercises (4)

Example (2) Complete				
1	90 = tens	4	7 × 90 =	
2	9,600 =Hundreds		4 × 6,000 =	
3	6,000 =Hundreds	6	4 × 500 =	

Exa	Example (3) Complete			
	8boxes of fruit, each box contains 6 bags, in each bag 4 kg. How many kilograms in the box			
2	With Salma 4 cans. Each box contains 8 bags, each bag contains 100 balloons. How many balloons?			
3	3 colonies of ants, each colony has 5 groups, and each group contains 1,000 ants How many ants.			



Exam (unit five)

Ex	Example (1) Choose the correct answer						
(1)	Identity of multiplication is						
(A)	0	(B)	1	(C)	2	(D)	10
(2)	3 times the	numk	er 9 is				
(A)	3	(B)	9	(C)	27	(D)	39
(3)	The value of	the u	ınknown A in	the e	equation: 18 =	= A ×	6 is
(A)	24	(B)	16	(C)	168	(D)	3
(4)	45is equal to)	times	the	number 5		
(A)	9	(B)	6	(C)	5	(D)	40
(5)	$3 \times 4,000 = 3$	3 × 4	×				
(A)	10	(B)	100	(C)	1,000	(D)	10,000
(6)	500 =		ten	S			
(A)	5	(B)	50	(C)	500	(D)	5,000
(7)	Which of the following equations shows the commutative property of multiplication?						
(A)	1×3=3	(B)	4×3=3×4	(C)	$4\times(5\times3)$ $(4\times5)\times3=$	(D)	0=0×4

Exa	ample (2): - Complete
1	× 12 = 12 × 48
2	50 equals 5 times the number
3	×5=6+6+6+6
4	3 × (2 × 5) =
5	= M: , 7 × 4 = M
6	= 10 × 5
7	10times the number 9 equals
8	= 6 × 5 × 4





(1) $0 \times 35 = \dots$

(A) 0 (B) 35 (C) 350 (D) 305

(2) 7 7 7

The corresponding bar chart shows that the number is equal to 3 times the number 7

(A) 7 (B) 3 (C) 21 (D) 49

(3) The number is equal to 6 times the number 3

(A) 6 (B) 9 (C) 18 (D) 36

(4) The equation that expresses that a number is 10 times the number 5 is......

(A) A=10+5 (B) $A=10\times5$ (C) A=10-5 (D) $10=A\times5$

(5) $2 \times 3 \times 4 = \dots$

(A) 12 (B) 30 (C) 24 (D) 5

(6) $5 \times A = 5 \times 7$

(A) 35 (B) 12 (C) 7 (D) 5

(7) $(3 \times 6) \times 7 = 3 \times (6 \times 7)$ A property is called

(A) commutation (B) Identity of multiplication (C) Associative property (D) Multiplication by zero

Example (4): - Complete as required

Ayman ate 3 apples, and his brother ate 4 times what Ayman ate. How many apples did his brother eat?

If the price of an electrical device is 400 pounds, what is the price of 10 devices of the same type?

price of to devices of the same type:

Doaa bought 3 boxes of pens, each box contains 4 pens, so if the price of one pen 5 pounds, what is the price of the pens that Doaa bought?

Find using properties of multiplication $6 \times 2 \times 5$

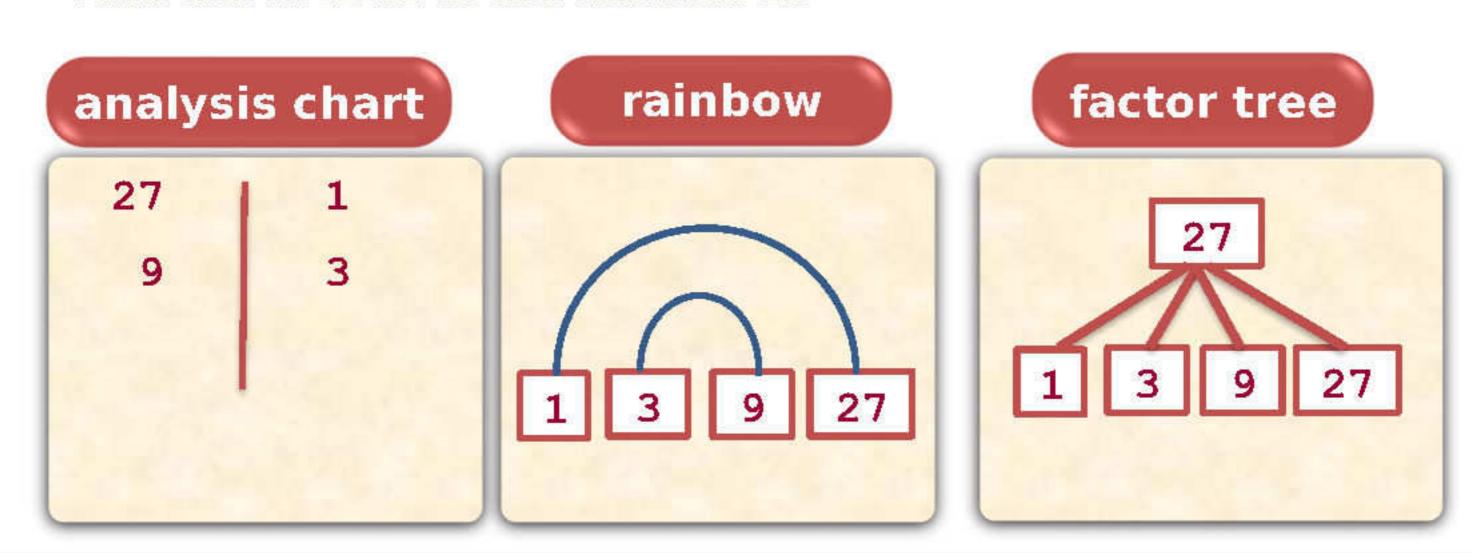
Determine the factors of integers

Unit Six Lesson (1)

Number factors

Number Factors: It is the analysis of the number by writing it in the form of the product of a number More For example, the factors of 15 are 15, 1, 5, and 3

- One is a common factor for all numbers.
- When writing the factors, do not repeat the factors.
- Zero is not a factor of any number.
- Every number is a factor of itself except for zero.
- Methods of finding the factors of a number
- Find the factors of the number 27



Exa	Example (1) Find the factors of the following numbers				
1	The factors of 6 are				
2	The factors of 8 are				
3	The factors of 10 are				
4	The factors of 12 are				
5	The factors of 18 are				

Ex	Example (2) Choose the correct answer						
(1)	One of the	e fac	tors of the	num	ber 15 is		
(A)	2	(B)	5	(C)	10	(D)	zero
(2)	One of the	e fac	tors of the	num	ber 12 is		
(A)	2	(B)	5	(C)	10	(D)	zero
(3)	One of the	e fac	tors of the	num	ber 30 is		
(A)	7	(B)	15	(C)	9	(D)	4
(4)	One of the	e fac	tors of the	num	ber 24 is		
(A)	12	(B)	5	(C)	15	(D)	7

Exa	Example (3) Complete				
	Find the factors of the		Find the factors of the		
	number 14		number 35		
	14 = x		35 = x		
1	14 = x	3	35 = x		
	Factors of the number 14		Factors of the number 35		
	=,,,		=,,,		
	Find the factors of the		Find the factors of the		
	number 20		number 16		
2	20 = x		16 = x		
2	20 = x	4	16 = x		
	Factors of the number 20		Factors of the number 16		
	=,,,,		=,,,		



Exa	Example (4) Complete			
1	The numbers 1, 2, 5, and 10 are factors of a number			
2	The numbers 1, 5, and 25 are factors of a number			
3	is a factor of all numbers			
4	The number of factors of the number 12 is equal to factor			
5	2 A factor of a number			

Exa	Example (5) Complete an factor or not an factor				
1	3 for the number	21	6	10 for the number 45	
2	2 for the number	28	7	9 for the number 36	
3	6 for the number	54	8	4 for the number 25	
4	21 for the number	42	9	5 for the number 40	
5	1 for the number	53	10	8 for the number 21	

Exa	Example (6) Complete			
1	An even number greater than 30 and less than 50 that has a factor of 10 is			
2	An even number between 20 and 30, and some of its factors are 1, 2, 7, 14 is			
3	A number that has only one factor is			
4	The number of pairs of factors of a number 12 equals pair			
5	The pairs of factors of 18 are			
6	The pairs of factors of 20 are			
7	An even number between 2 and 16, and some of its factors are 1, 2, 7, 14 is			

Exercises (1)

Exai	nple (1) Find the factors of the following numbers
1	The factors of the number 24 are
2	The factors of the number 32 are
3	The factors of the number 45 are
4	The factors of the number 40 are

Example (2) Complete				
	Find the factors of the		Find the factors of the	
	number 17		number 23	
1	× = 17	2	x = 23	
	Factors of the number 17		Factors of the number 23	
	,			

Example (3) Complete		
1	An odd number greater than 10 and less than 20 and one of its factors is 13 is	
2	An odd number between 20 and 30, and some of its factors are 1 and 23.	
3	A number that has only one factor is	
4	The number of pairs of factors of the number 32 equals pair	
5	The pairs of factors of 22 are	
6	The pairs of factors of 27 are	
7	An odd number between 2 and 16 and some of its factors are 1, 7 is	

Prime and non-prime numbers (multifactorial)

Unit Six Lesson (2)

prime numbers

- The first number: it is a number greater than one, and it has only two factors (the one and the number itself).
- Such as: 2,3,5,7,11,17,19,23,29......
- All prime numbers are odd numbers except for 2 even numbers.
- The smallest even prime number is 2
- The smallest odd prime number is 3
- . The one is not prime because it has only one factor.
- •A non-primary number: it is a number greater than or equal to one and has more than two factors.

2	3	5	7	11
13	17	19	23	29
31	37	41	43	47
53	59	61	67	71
73	79	83	89	97

Example (1) Find the factors of the following numbers, then determine whether it is a prime number or not

	Find the factors of the		Find the 1
	number 14		number 5
	× = 14		
1	x = 14	2	
	Factors of the number 14	_	Factors o
			,
	the number 14 is		the numb

	Find the factors of the
	number 5
_	= 5x
2	Factors of the number 5
	, , ,
	the number 5 is

	Find the factors of the number 25
3	

	Find the factors of the
	number 31
ž.	x = 31
	Factors of the number 31
	, , ,
	the number 31 is

Example (2) Complete by writing a prime or non-prime number		
1	The factors of the number 9 are and therefore the number	
2	The factors of the number 3 are and therefore the number	
3	The factors of the number 16 are and therefore the number	
4	The factors of the number 31 are and therefore the number	
5	The factors of the number 30 are and therefore the number	

Example (3) Complete		
1	The common factor of all numbers is	
2	All prime numbers are odd numbers except	
3	The smallest prime number is	
4	The factors of the number 3 are	
5	A number that has only two factors is called a number.	
6	The first number preceding the number 17 is	
7	The first number after the number 20 is	
8	A prime number between the numbers 30 and 35 is	

Exercises (2)

Example (1) Find the factors of the following numbers, then determine whether it is a prime number or not

Find the factors of the number 27
......x = 27
1x = 27
Factors of the number 27
the number 27 is

Find the factors of the number 19
......x = 19

Factors of the number 19
..... the number 19 is

Example (3) Complete		
1	The first number after the number 17 is	
2	All prime numbers are odd numbers except	
3	The smallest odd prime number is	
4	The factors of the number 9 are	
5	A number that has only two factors is called a number	
6	The first number preceding the number 37 is	
7	The common factor of all numbers is	

greatest common factor

Unit Six lesson (3)

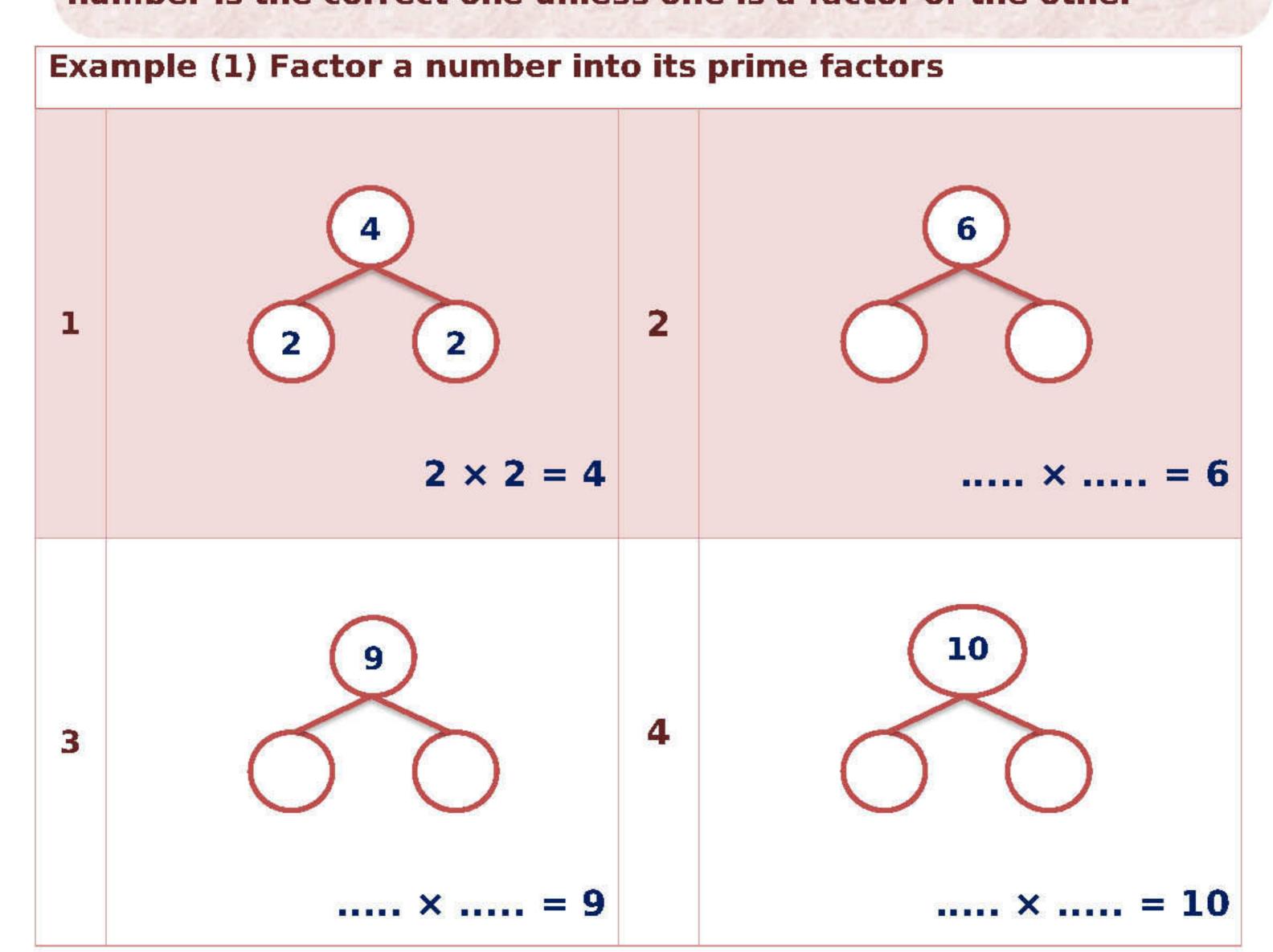
Method of finding the common factor

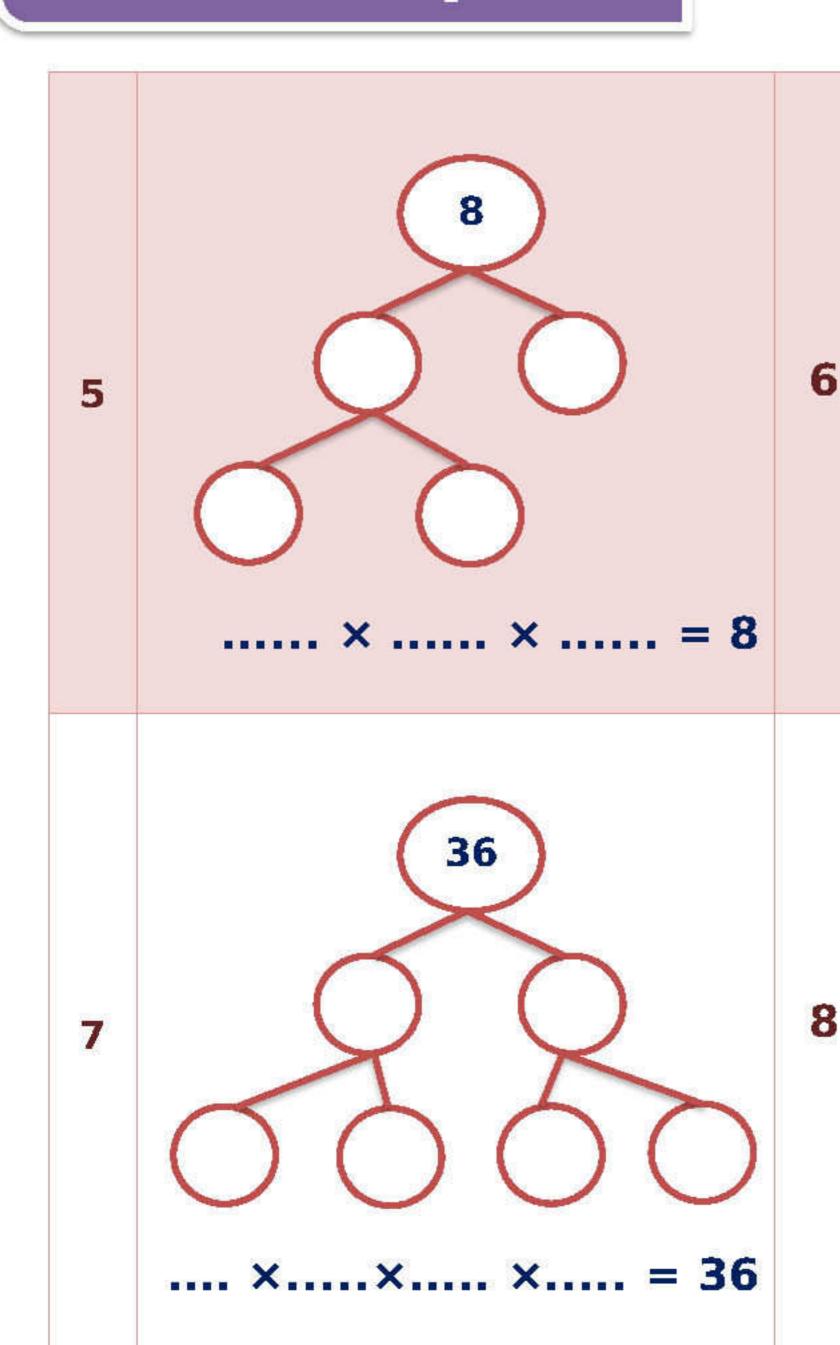
We find the factors of each of the numbers 14 and 21

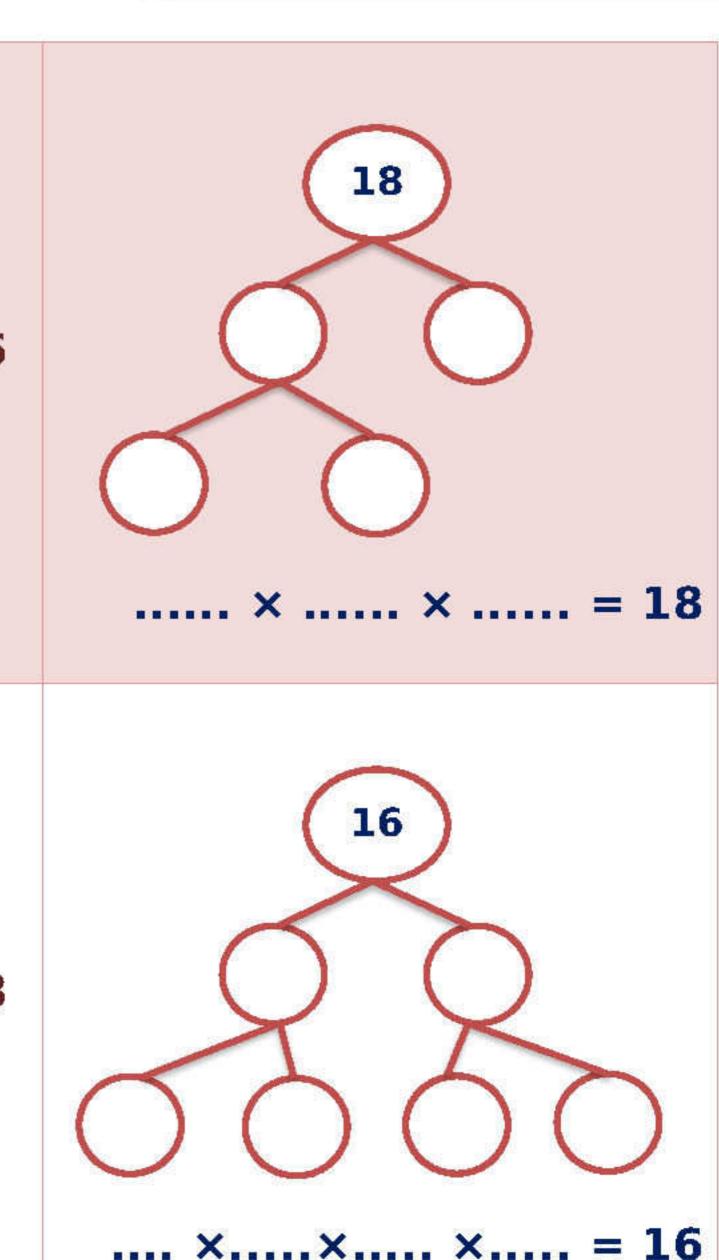
The factors of 21 are 1, 3, 7, and 21

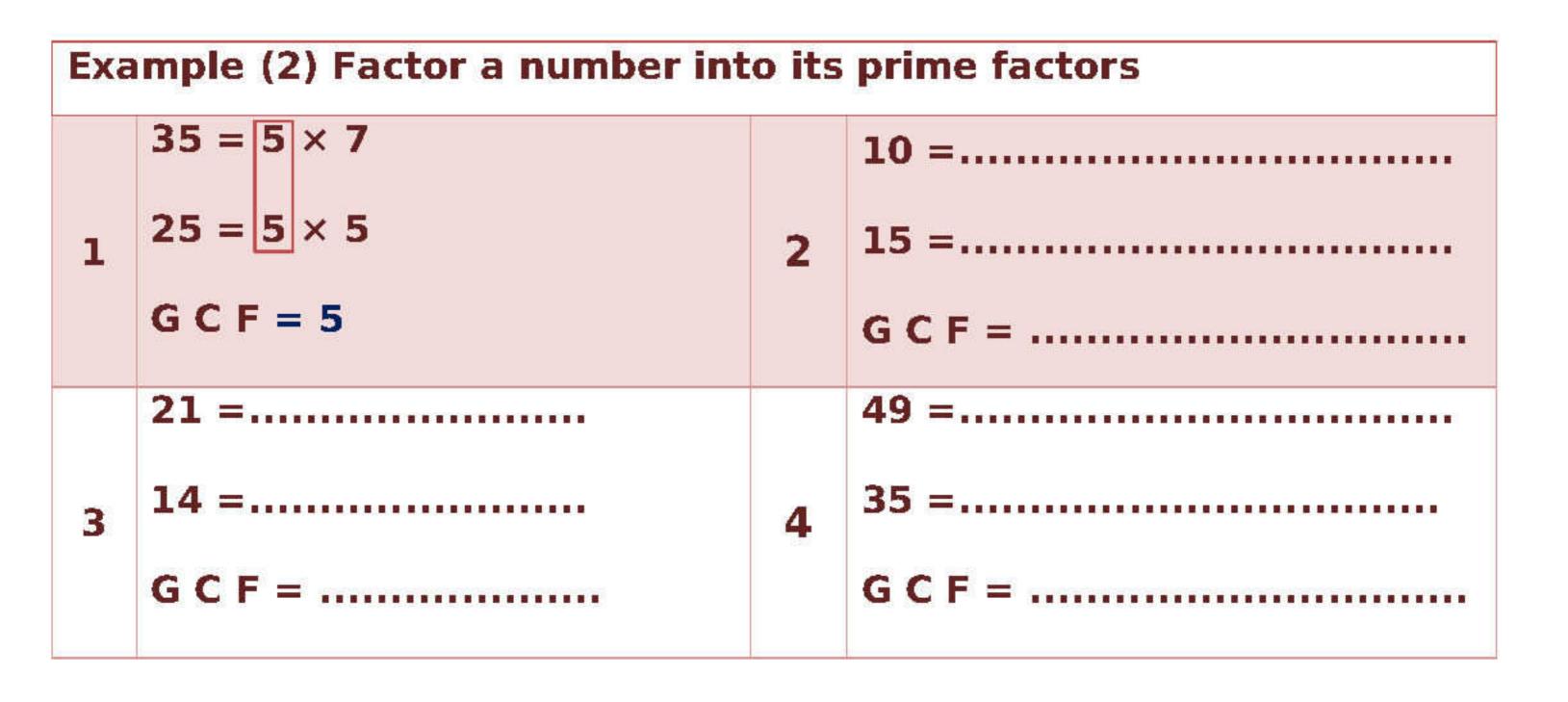
The factors of 14 are 1, 2, 7, and 14

- We determine the common factors of the numbers
 14 and 21 are 1 and 7
- We determine the greatest common factor (G C F) 14 and 21 is 7
- The common factor for all numbers is the integer one
- The common factor between a prime number and a non-prime number is the correct one unless one is a factor of the other









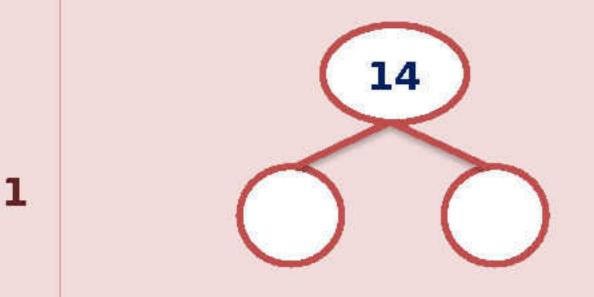
	nple (3) Write down the factors of each number, then write the test common factor (G C F)
1	The factors of 22 are The factors of 44 are The greatest common factor is
2	The factors of 13 are The factors of 39 are The greatest common factor is
3	The factors of the number 25 are The factors of 55 are The greatest common factor is
4	The factors of 6 are The factors of 18 are The greatest common factor is

Example (4) Com	ìp	Ж	et	:e
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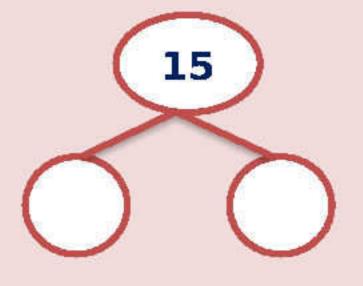
	Muhammad wanted to divide 14 pens and 21 notebooks into
	groups so that each group contains the same number of tools.
	What is the largest number of groups that can be formed for
	each type of tool so that each group has the same number.
	And how many pens are in each group?
1	What is the number of chairs in each group?
	14 =
	21 =
	Number of groups (G C F) =
	Number of pens in each group =
	Number of notebooks in each group =

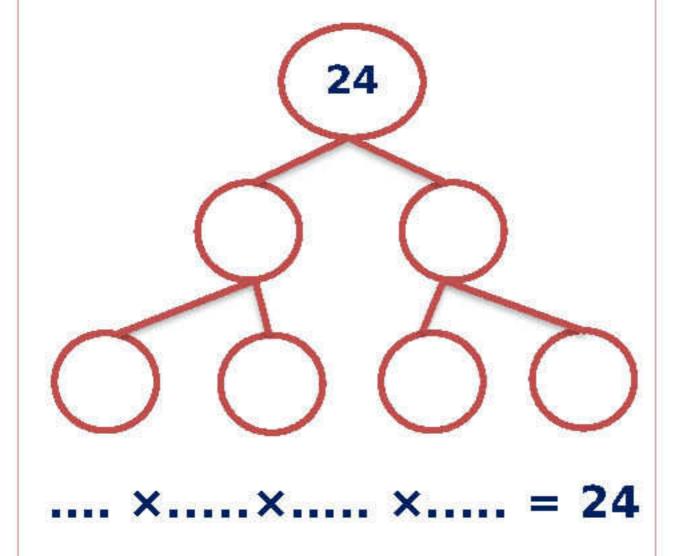
Exercises (3)

Example (1) Factor a number into its prime factors

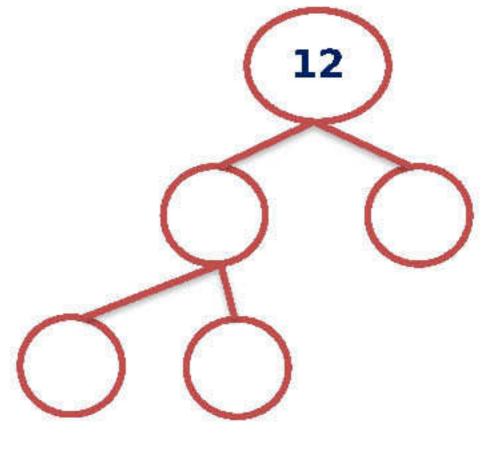


2

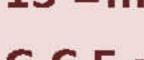




3



Example (2) Factor a number into its prime factors

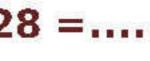














	nple (3) Write down the factors of each number, then write the test common factor (G C F)
1	The factors of the number 15 are The factors of 30 are The greatest common factor is
2	The factors of the number 40 are The factors of the number 25 are The greatest common factor is
3	The factors of 36 are The factors of the number 12 are The greatest common factor is
4	The factors of the number 8 are The factors of the number 14 are The greatest common factor is

Example (4) Complete

Muhammad wanted to divide 25 pens and 35 notebooks into groups so that each group contains the same number of tools. What is the largest number of groups that can be formed for each type of tool so that each group has the same number. And how many pens are in each group?

What is the number of chairs in each group?

1

Identifying multiples of whole Numbers Common multiples

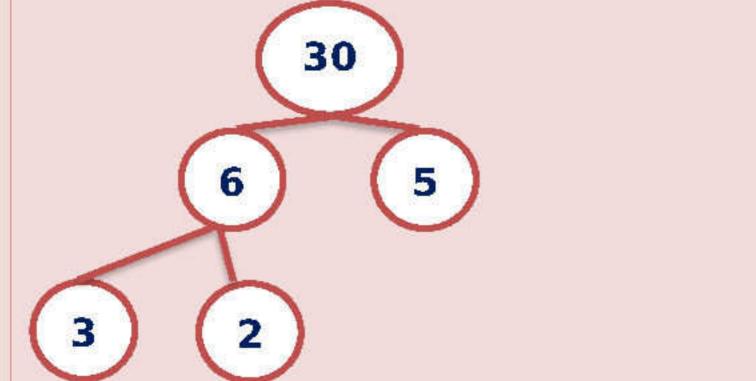
Unit Six Lesson (4 - 5)

Multiples of numbers are the products of multiplying a number by each of the numbers (0.1.2.3.4...)

- Example multiples of 2 are: 0, 2, 4, 6
- Note: If we multiply any number by 3, the result will be a multiple of 3 and so on.
- Common multiples
- Zero is a common multiple of all numbers except zero

Example (1) Write down the factors of each number, then write the Least Common Multiple (LCM)

• Find (LCM) for the two numbers (20, 30)

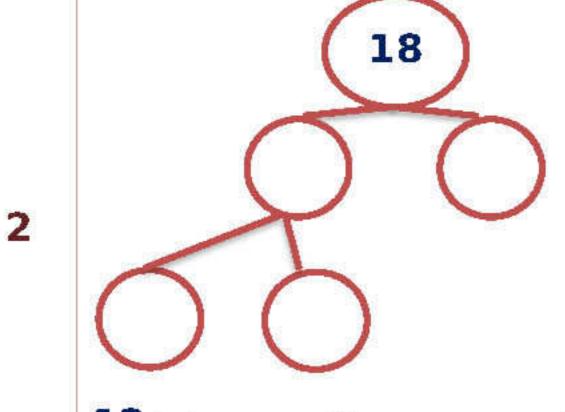


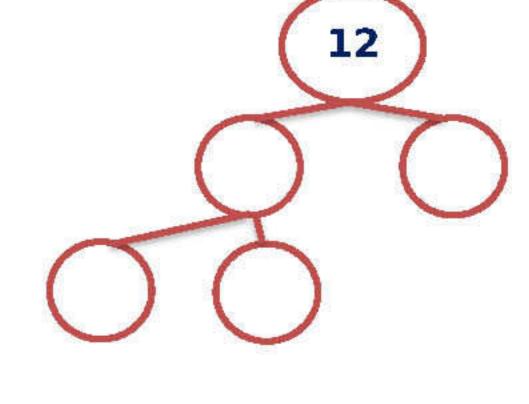


20 =×

LCM =× =

Find (LCM) for the two numbers (12, 20)





12 =××

18 =×

LCM =×× =

Exar	nple (1) Complete
1	Multiples of 5 are
2	Multiples of 3 are
3	Multiples of 10 are
4	What is the common multiple of 5 and 8? The multiples of 5 are
5	Which of the following is not a common multiple of 9 and 6? Multiples of 9 are
6	Multiples of 3 that are less than 15 are
7	14 is a common multiple of both
8	21 is a common multiple of both
9	An even number that is a common multiple of 2 , 5 is greater than 35 and less than 42 is
10	5 are common multiples of 3 and 4 The multiples of 3 are
11	5 are common multiples of 10 and 5 The multiples of 10 are

Example (3) Complete by writing a multiple or not							
1	2 for the number	12	2	27 for the number 5			
3	40 for the number	20	4	9 for the number 19			

Exercises (4)

Exan	nple (1) Complete					
1	Multiples of 4 are					
2	Multiples of 7 are					
3	Multiples of 20 are					
4	What is the common multiple of 3 and 9? The multiples of 3 are					
	(9,40,20)					
5	Which of the following is not a common multiple of 10 and 15? Multiples of 10 are					
	(30 , 27 , 60)					
6	Multiples of 7 that are less than 15 are					
7	15 is a common multiple of both					
8	35 is a common multiple of both					
9	An even number that is a common multiple of 4, 3 is greater					
	than 35 and less than 42 is					
10	5 are common multiples of 7 and 3					
	The multiples of 3 are					
	The multiples of 4 are Common complications are					
11	5 are common multiples of 2 and 5					
	The multiples of 3 are					
	The multiples of 4 are Common complications are					

Example (2) Complete by writing a multiplier or factor							
1	2 for the number 24	2	45 for the number 5				
3	10 for the number 40	4	9 for the number 27				

Relationships between factors and multiples

Unit Six Lesson (6)

- Explain the relationship between the numbers 3, 5 and 15
- The number 15 is a common multiple of the numbers 3 and 5
- The numbers 3 and 5 are factors of 15
- Any number that is a multiple of any of its factors

Exan	nple (1) Infer the relationship between the numbers
1	24 . 8 . 3
2	30 , 6 , 5
3	30 , 5 , 10 , 3
4	Write a number that has only 3 factors
5	Write 3 multiples of 5
6	Write 3 factors of the number 20
7	The number 24 is one of the factors of the number
8	The number 6 is a factor of the number
9	The common multiple of all numbers is

Example (2) Complete by writing a multiplier or factor							
1	5 for the number	15	2	4 for the number	16		
3	40 for the number	20	4	81 for the number	9		

Exercises (5)

Exar	nple (1) Infer the relationship between the numbers
1	21 , 7 , 3
2	35 . 7 . 5
3	16 , 8 , 4 , 2
4	Write a number that has only 2 factors
5	Write 3 multiples of 6
6	Write 3 factors of the number 30
7	The number 20 is a factor of the number
8	The number 6 is a factor of the number
9	The common multiple of all numbers is
10	Write a number that contains only 4 factors
11	The common factor of all numbers is

Example (2) Complete by writing a multiplier or factor								
1	2 for the number	16	2	6 for the number	36			
3	40 for the number	80	4	27 for the number	3			
5	7 for the number	35	6	4 for the number	24			
7	90 for the number	10	8	15 for the number	3			

Exam (unit six)

Ex	Example (1) Choose the correct answer							
(1)	The only eve	n prir	ne number			•		
(A)	1	(B)	2	(C)	3	(D)	4	
(2)	(GCF) for t	he nu	mber 8, 12 i	S				
(A)	2	(B)	3	(C)	12	(a)	3	
(3)	The number is a factor of the number 63							
(A)	2	(B)	5	(C)	7	(D)	11	
(4)	Which of the	follo	wing numbe	rs is a	prime numb	er?		
(A)	1	(B)	50	(C)	14	(D)	11	
(5)	Which of the	follo	wing is a mu	ltiple	of 9 ?			
(A)	30	(B)	50	(C)	18	(D)	6	
(6)	The common	facto	or for all nun	nbers	is			
(A)	0	(B)	1	(C)	2	(D)	3	
(7)	A common m	ultipl	e of 6 and 8	is the	e number			
(A)	8	(B)	6	(C)	48	(D)	40	

Exa	ample (2): - Complete
1	The prime number immediately following the number 11 is
2	The common factors of the numbers 4 and 16 are: ,
3	The prime number has factor
4	Multiples of 4 between 20 and 30 are
5	If $35 = 5 \times 7$, then the number is a multiple of the two numbers,
6	The common multiple of 6 and 9 is
7	The numbers 20, 25, and 30 are multiples of a number
8	The number is the greatest common factor (GCF) of the numbers 7 and 14

First term

Example (3) Choose the correct answer								
(1)	The numbers 1, 2, 5, and 10 are factors of a number							
(A)	5	(B)	25	(C)	10	(D)	2	
(2)	A prime num	ber w	hose sum of	fact	ors is 8 is			
(A)	7	(B)	5	(C)	13	(D)	11	
(3)	Which of the numbers 12 a			as the	e same (GCF)	for t	he	
(A)	9 , 6	(B)	27 . 8	(C)	60 , 18	(D)	48 , 36	
(4)	Which of the	follo	wing is a pri	me nı	ımber			
(A)	5	(B)	6	(C)	10	(D)	12	
(5)	A factor of 63	3 is tl	ne number					
(A)	6	(B)	7	(C)	8	(D)	10	
(6)	A THE CHAIR PERSON PERSON OF PARTY SERVICES				ents defines ers 5 and 2			
(A)	is a 5 multiple of 25	(B)	is a 5 factor of 25	(C)	factors 25 out of 5	(D)	is 5 5 times 25	
(7)	The commo	n m	ultiple of al	l nur	nbers is		* * *	
(A)	0	(B)	1.	(C)	2	(D)	3	

Exa	Example (4): - Complete as required			
1	Find the common factors of the numbers 25 and 45			
2	Find the greatest common factor (GCF) of the numbers 12 and 30			
	Write 3 common multiples of 2 and 4			
3				
	Deduce the relationship between the following numbers 24 , 8 , 2			
4				

Multiplication of the area models and Distribution property

Unit Seven Lesson (2-1)

Multiplication of the area models

•
$$15 \times 3 = 45$$

10 5

 $10 \times 3 = 30$ $5 \times 3 = 15$

30 + $15 = 45$

Distribution property

•
$$15 \times 3 = 3 \times (10 + 5)$$

= $(3 \times 10) + (3 \times 5)$
= $30 + 15$
= 45

95 × 4 =.....

Example (1)



3 ... + =

......

..... +..... + =

743 × 4 =.....

...



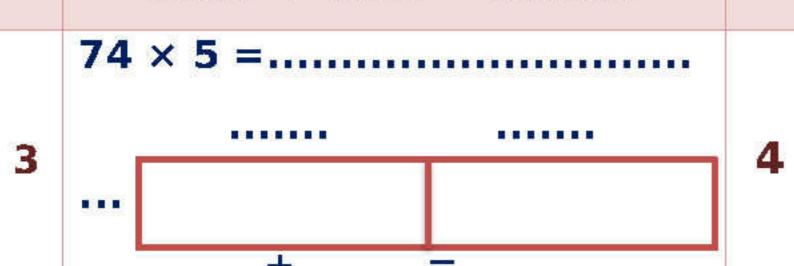
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Example (2)
      2 \times 451 = \dots \times (\dots + \dots + \dots)
               =(\ldots \times \ldots) + (\ldots \times \ldots) + (\ldots \times \ldots)
               = ..... + ...... + ......
               = .........
      4 \times 784 = \dots \times (\dots + \dots + \dots)
               =(\ldots \times \ldots) + (\ldots \times \ldots) + (\ldots \times \ldots)
              = ..... + ...... + ......
      3 \times 463 = \dots \times (\dots + \dots + \dots)
               =(\ldots \times \ldots) + (\ldots \times \ldots) + (\ldots \times \ldots)
 3
               = ..... + ...... + ......
      7 \times 836 = \dots \times (\dots + \dots + \dots)
               =(\ldots \times \ldots) + (\ldots \times \ldots) + (\ldots \times \ldots)
               = ..... + ...... + ......
               = ........
      8 \times 426 = \dots \times (\dots + \dots + \dots)
               =(\ldots \times \ldots) + (\ldots \times \ldots) + (\ldots \times \ldots)
               = ..... + ...... + ......
```

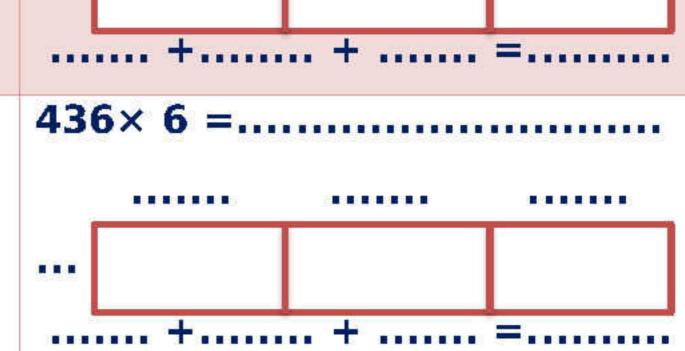
Example (3): - Using the distributive property, find the product of the product

Each river bus can accommodate 22 passengers at a time
What is the maximum number of passengers that can be
carried on 5 flights?



Exercises (1)





Example (2)

Example (3): - Using the distributive property, find the product of the product

The length of the river bus route is 85 km

How many kilometers will the river bus travel if it travels

this route 9 times a day?



First term

Standard multiplication algorithm and partial multiplication

Unit Seven Lesson (3 -4)

partial multiplication

457 × 5 2,000 = (400 × 5) 250 = (50 × 5) 35 = (7 × 5) 3,285 =

Standard multiplication algorithm

Example (1) Complete

876 × 4

548 ×

-

3

+ -----

156

×

378 ×

5

4 +

Grade 4



First term

Example (2) Complete

1	4,457 × 5 =	2	625 × 3 =
3	1,605 × 6 =	4	725 × 7 =

Example (3) Use estimation to determine the product of the multiplication, then find the actual product

1	43 × 4 Estimate=	2	152 × 3 Estimate=	3	746 × 5 Estimate=		1,415 × 2 Estimate=
	solution :		solution :		solution :	4	solution :
			************	Į.			

Example (4): - Using the distributive property, find the product of the product

If a kilogram of apples costs 30 pounds, how much does

5 kilograms cost?

5people participated in a trip, each person paid 125 pounds.

2 Find out what they paid.

A lion eats 15 kg of meat per hour, how many kg does he eat in

3 5 hours

6 people participated in an exhibition and each of them won \$145. What amount did they all win?



Exercises (2)

Ex	ample (1)						
1	235 × 6 + +	2	526 * 7 +	3	626 × 4 +	4	572 × 9 +
5	461 × 8 + +	6	628 × 4 +	7	826 × 5 +	8	953 × 7 + +
1	3,617 × 4	2	7,268 × 2	3	5,602 × 5	4	9,235 × 3
5	6,671 × 6	6	4,346 × 8	7	8,378 × 9	8	5,124 × 7



Ex	Example (2)			
1	6,261 × 5 =	2	479 × 7 =	
3	3,280 × 6 =	4	166 × 8 =	
5	3,367 × 7 =	6	235 × 9 =	
7	5,267 × 8 =	8	835 × 4 =	

Example (3) Use estimation to determine the product of the multiplication, then find the actual product

67 × 4
Estimate=

Estimate=

Solution:

Exa	mple (4)
1	If a kilogram of apples costs 45 pounds, how much does 6 kilograms cost?
2	8 people participated in a trip, each person paid 174 pounds. Find out what they paid.
3	A lion eats 24 kg of meat per hour, how many kg does he eat in 7 hours
4	9 people participated in an exhibition and each of them won \$261. What amount did they all win?

Multiplication by a two-digit number In multiples of 10

Unit Seven lesson (5)

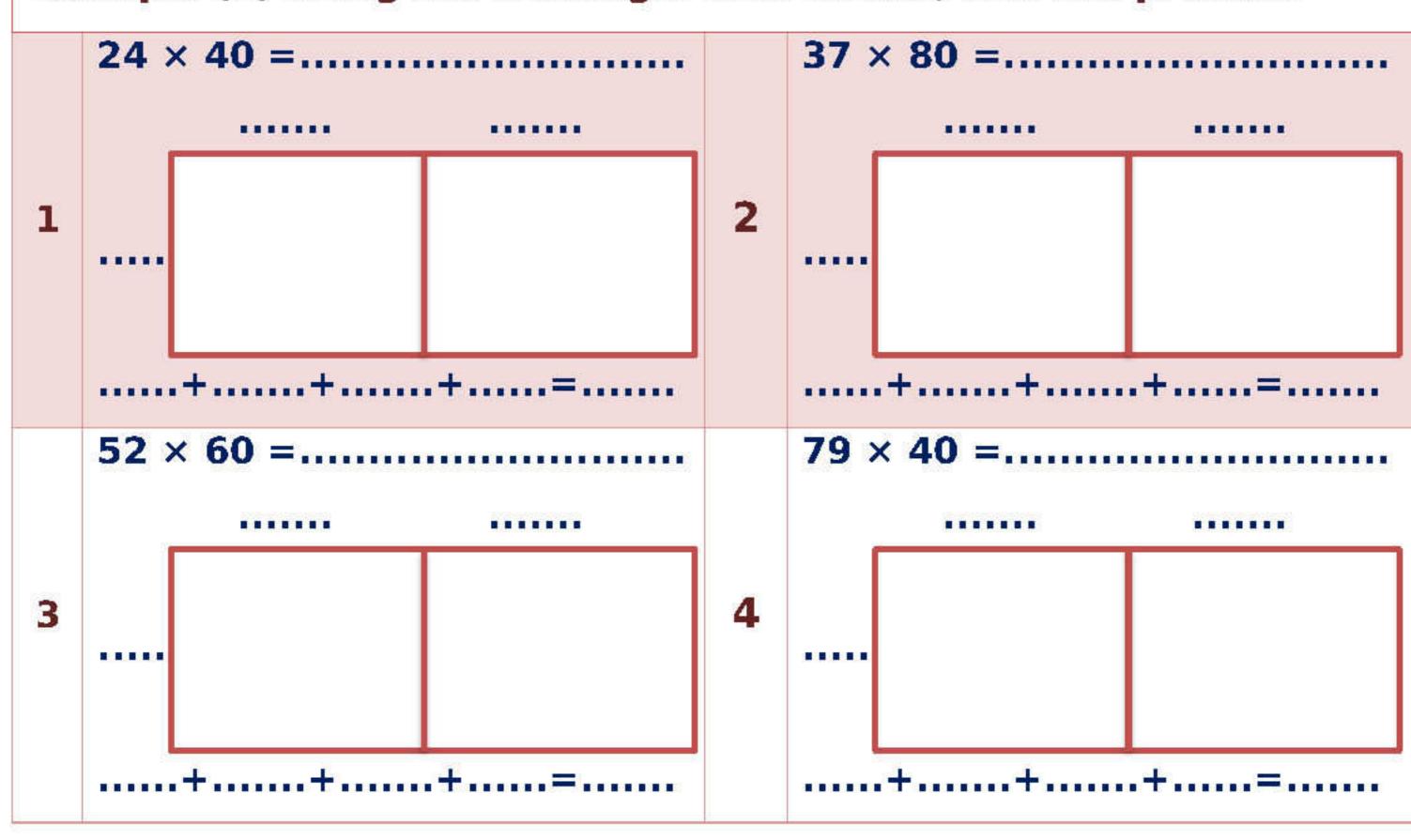
Multiplication by distribution and the area of the rectangle model

- Multiplication using the distributive property
- $10 \times 32 = (10) \times (30 + 2)$ = $(10 \times 30) + (10 \times 2)$ = 300 + 20= 320
- Multiplication using the area of the rectangle model
- $20 \times 35 = 45$ $30 \qquad 5$ $20 \quad 20 \times 30 = 600 \quad 20 \times 5 = 100$ 600 + 100 = 700

Standard multiplication algorithm and partial multiplication

fractional multiplication Standard multiplication

Example (1) Using the rectangle area model, find the product

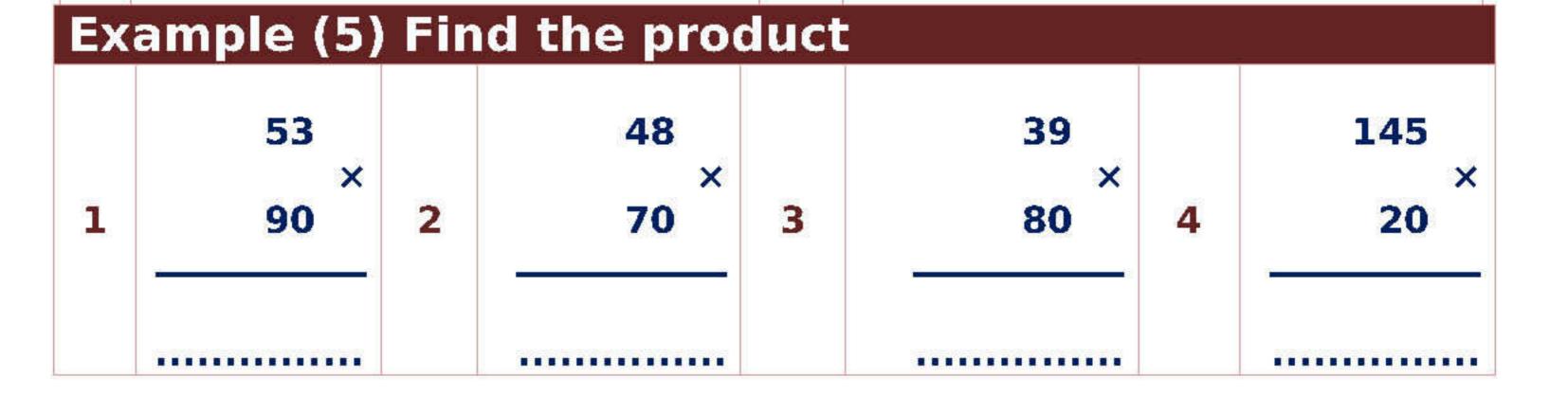


Example (2): - Find the result by rounding to the nearest 10

$$1 14 31 = 10 30 = 300$$

Example (3): - Find the product

Example (4) Find the product of the multiplication 94 83 X X 30 60 1 + 65 45 X X 20 70 3 4 +



Exa	Example (6): - Complete		
	If the price of a kilogram of apples is 25 pounds. How much		
	is 30 kg		

-			

First term

	35people participated in the trip, each person paid 80
2	pounds. Find what they paid.

	An ant travels 78 meters per hour, find the distance it
_	travels in 50 hours.
3	***************************************

	A lion eats 41 kilograms of meat per day, how many
	kilograms does he eat in 60 days?
А	***************************************
4	***************************************

	Hani paints pictures and gets paid 56 pounds for one
	painting. What is the total amount that Hani gets for 40
	paintings?
5	

	Roa reads 24 pages a day, how many pages do you read in
6	30 days?

1

Exercises (3)

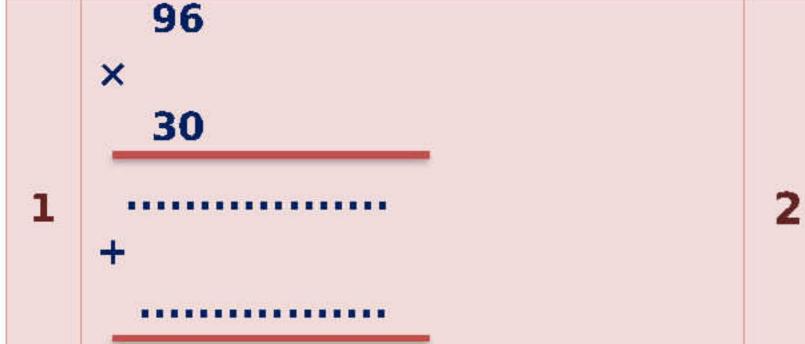
Example (1) Using the rectangle area model, find the product

Example (2): - Find the product

.....+....+....+.....+.....=.....

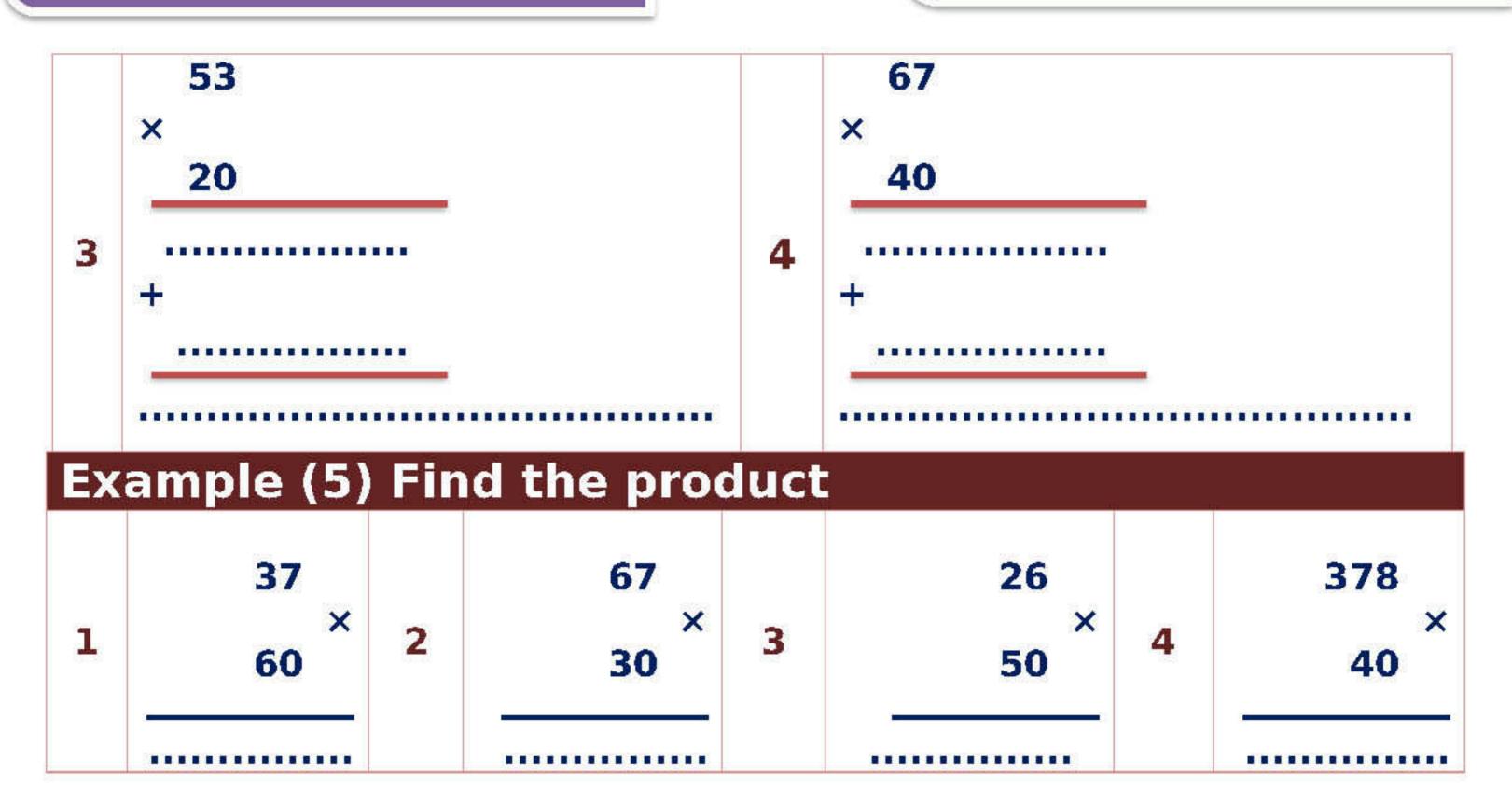
Example (3): - Find the result by rounding to the nearest 10

Example (4) Find the product of the multiplication





74



Exa	Example (6): - Complete				
1	If the price of a kilogram of apples is 63 pounds. How much is 60 kg				
2	74people participated in the trip, each person paid 80 pounds. Find what they paid.				
3	An ant travels 36 meters per hour, find the distance it travels in 70 hours.				

Explore the remainder of the division Patterns and place value in the division process

Unit Seven Lesson (6 – 7)

Division using different strategies

Division using different strategies

to learn

If $4 = 3 \div 12$, we can deduce the division of $3 \div 1,200$

• The solution $1,200 \div 3 = 400$

Exa	Example (1): - Complete		
1	900 ÷ 3 =	2	550 ÷ 5 =
3	360 ÷ 4 =	4	400 ÷ 5 =
5	35 ÷ 6 = The remainder is	6	28 ÷ 5 = The remainder is
7	25 ÷ 2 =	8	93 ÷ 9 =
	The remainder is		The remainder is
9	22 ÷ 2 = 11	10	48 ÷ 6 = 8
of the control	The divisor is		The divisor is
11	$24 \div 3 = 8$	12	26 ÷ 3
1,000	The quotient is	7,7000000	The quotient is
13	800 ÷ 4 =	14	6,400 ÷ 8 =
15	30,000 ÷ 5 =	16	12,000 ÷ 6 =
17	180 ÷ 2 =	18	630 ÷ 7 =
18	600 ÷ 3 =	20	4,500 ÷ 5 =

Exercises (4)

Example (1): - Complete				
1	700 ÷ 7 =	2	300 ÷ 5 =	
3	320 ÷ 8 =	4	660 ÷ 6 =	
5	37 ÷ 5 = The remainder is	6	31 ÷ 6 = The remainder is	
7	47 ÷ 9 = The remainder is	8	42 ÷ 10 = The remainder is	
9	55 ÷ 5 = 11 The divisor is	10	72 ÷ 9 = 8 The divisor is	
11	42 ÷ 6 = 8 The quotient is	81 ÷ 8 The quotient is		
13	1,600 ÷ 4 =	14	5,400 ÷ 9 =	
15	15 48,000 ÷ 8 = 16 64,000 ÷ 8 =		64,000 ÷ 8 =	
17	17 240 ÷ 2 = 18 560 ÷ 7 =			
E>	Example (2): - Complete			
1	If the number of students in the class is 60 students and the physical education teacher wants to divide them into 6 teams evenly. What is the number of each team?			
2	With a class of 360 crayons, the pupils want to divide them evenly by 6 teams How many pens are in each box?			
3	64,000people need to go to work by metro. Find the number of metro cars if each car transports 80 people.			
4	4,900people need to go to work in the morning, and they all want to ride the metro. The train consists of 7 carriages, and if each carriage accommodates 70 people, can all people ride the metro?			

the area Model and Divsion

Unit Seven Lesson (8)

Division using the area Model and Divsion

- Division using the area Model and Divsion
- 527 × 5 =

$$5 \times 100 = 500$$
 $5 \times 5 = 25$
 $5 \times 100 = 500 + 5$

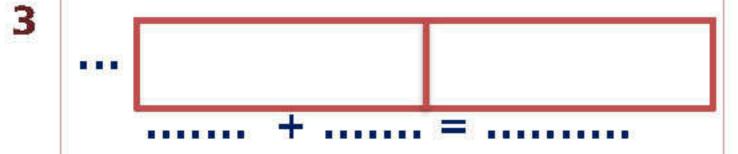
The divisor is 105 and the remainder is 2

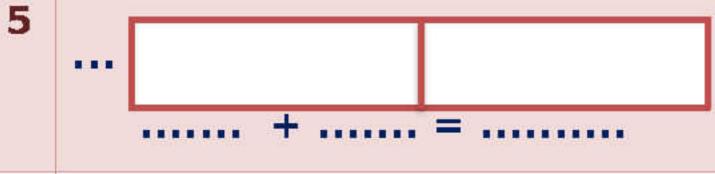
Example (1) use the area Model to solve



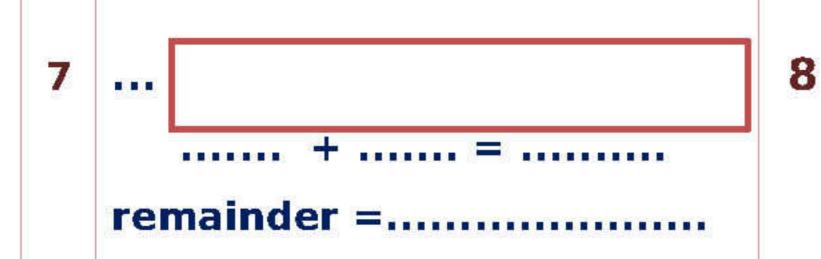


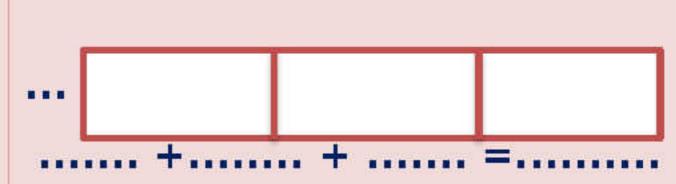
1

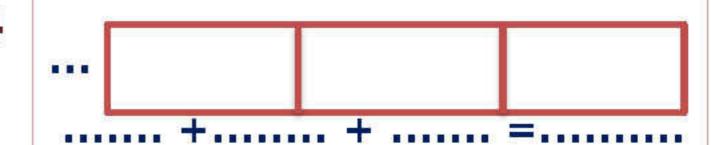












Exercises (5)

Eva	male (2), use the area Medel to solve
EXA	mple (2): - use the area Model to solve
1	If the number of students in the class is 69 students and the physical education teacher wants to divide them into 3 teams equally. What is the number of each team?
2	With a class of 540 crayons, the pupils want to divide them evenly by 6 teams How many pens are in each box?
3	640 people need to go to work by metro. Find the number of metro cars if each car transports 8 people.

the partial quotient algorithm

Unit Seven Lesson (9)

• the partial quotient algorithm

Steps to solve division using the partial quotient algorithm

• Quotient = 100 + 20 + 9 = 129 and the remainder is 4

Example (1) Find the quotient

 $78 \div 3 = \dots$

78

3

1

 $897 \div 4 = \dots$

Exercises (6)

Example (1) Find the quotient

453 ÷ 5 =

2

892 ÷ 6 =

 $244 \div 6 = \dots$

 Quotient =
 Quotient =

 Remainder =
 Remainder =

792 ÷ 3 =

Quotient =

Remainder =

Example (2): - Complete

The juice shop owner owns 480 cups. If the shopkeeper wanted to use these cups for 3 months evenly, how many cups should he use each month?

1

3

Division and multiplication

Unit Seven Lesson (10-11)

- to estimate the quotient
- $54 \div 3 = \dots$
- We search

For a number of multiples of the divisor (3) between which the dividend falls (54)

- The two numbers are 30 and 60
- Divide both numbers by the divisor (3).

$$60 \div 3 = 20$$
, $30 \div 3 = 10$

$$30 \div 3 = 10$$

Therefore, the quotient is between 10 and 20

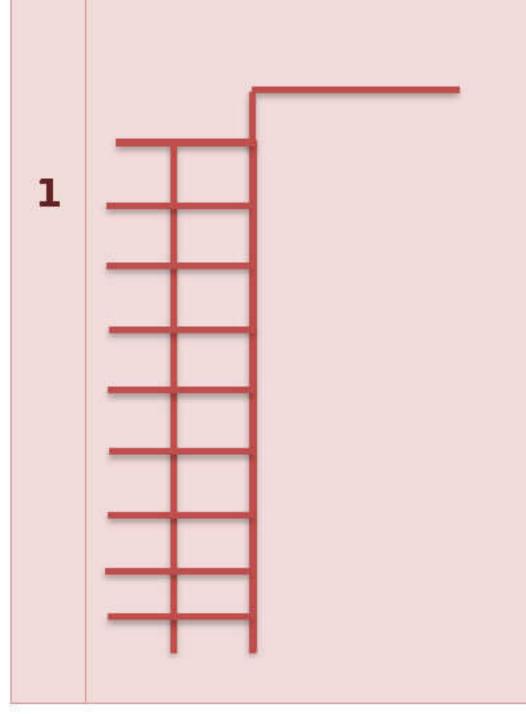
Example (1) Estimate the division and then find the actual division

 $562 \div 8 = \dots$

the quotient between

 $4,590 \div 3 = \dots$

the quotient between



Grade 4



First term

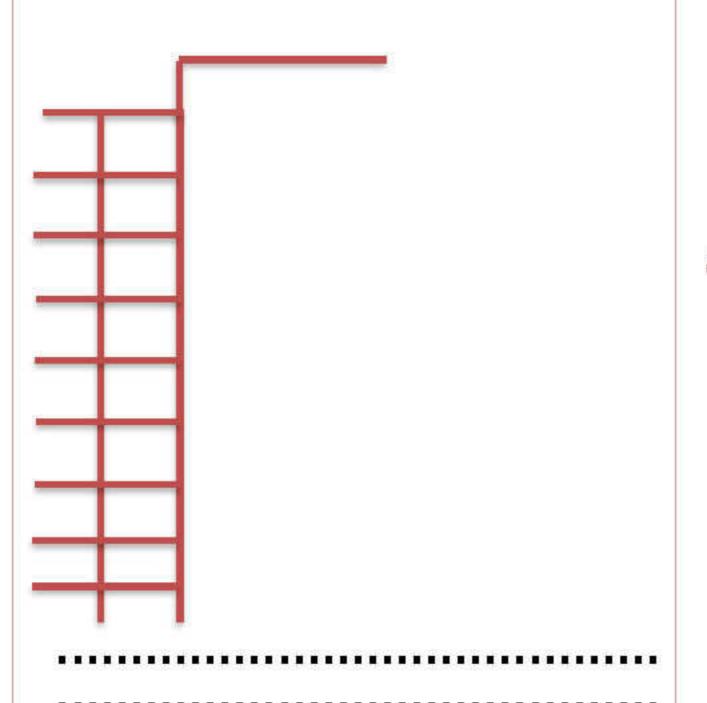
 $9,102 \div 3 = \dots$

the quotient between

 $1,232 \div 8 = \dots$

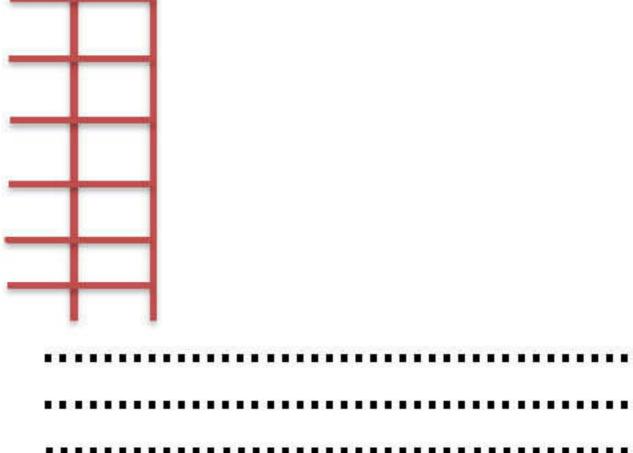
the quotient between

3





4

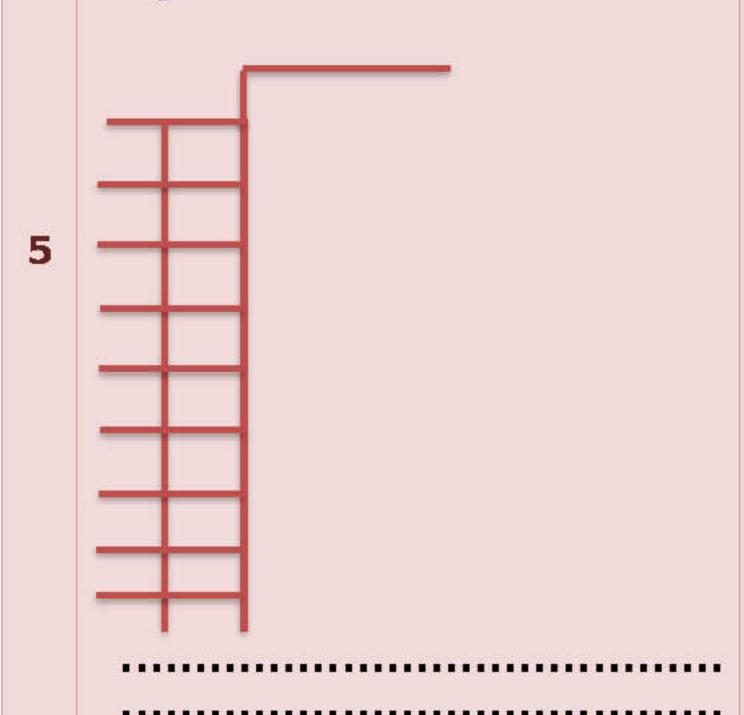


 $4,550 \div 5 = \dots$

the quotient between

789 ÷ 5 =

the quotient between







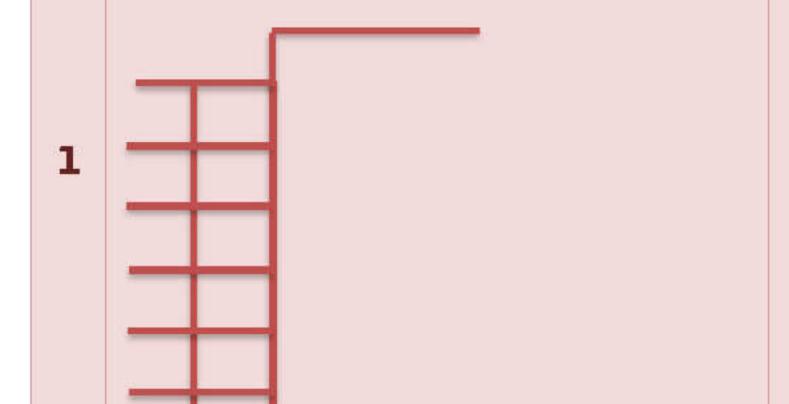
Exercises (7)

Example (1) Estimate the division and then find the actual division

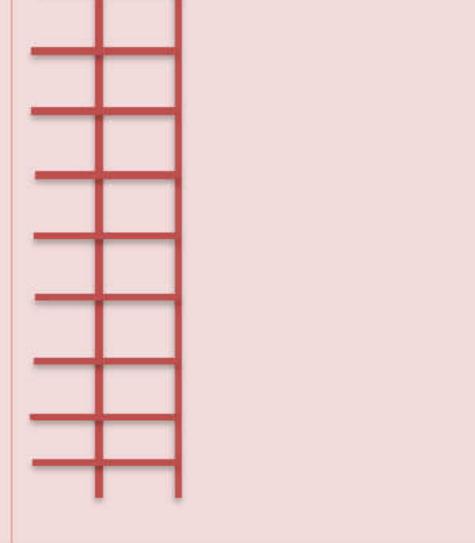
562 ÷ 8 =

4,590 ÷ 3 =

the quotient between



2



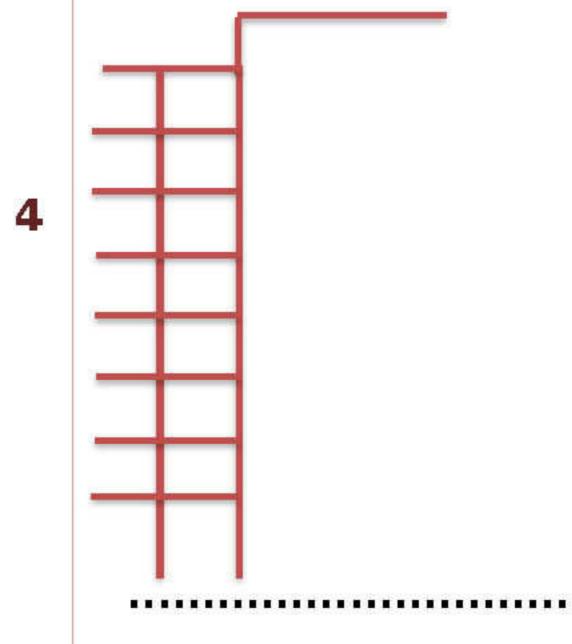
879 ÷ 6 =

the quotient between



2,985 ÷ 2 =

the quotient between





Exa	mple (2): - Complete
	Muhammad has 347 small glass balls. Kamal has 4 times what Hadi has and has 799 less aura than Kamal. How many marbles does Hala have?
	A car consumes 212 liters of gasoline in 4 months, what is the average consumption of the car in one month?
3	A train has 360 seats for passengers. If the train consists of 9 carriages and each carriage has the same number of seats, how many passengers can sit in each carriage?



Exam (unit seven)

EX	amp	ie (T)	Cnoose	tne c	orrect a	nswer
- AND THE STREET	DESCRIPTION HOUSE					

- (1) $210 \times 7 = \dots$
- (A) 2,107 (B) 1,470 (C) 1,574 (D) 1,740
- (2) If 58 = 5,800 ÷ 100 then the dividend is......
- (A) 58 (B) 100 (C) 680 (D) 5,800
- (3) $4 \times 700 = \dots$
- (A) 28 (B) 280 (C) 2,800 (D) 1,100
- (4) 700 ÷ 7 =
- (A) 1 (B) 10 (C) 100 (D) 1,000

the corresponding form shows the multiplication of 7 x 36 The unknown value in the form is......

- (5) 30 6 7 210
- (A) 6 (B) 7 (C) 42 (D) 420
- (A) 1 (B) 2 (C) 3 (D) 4
- (7) If $50 = 500 \div 10$, then the divisor is......
- (A) 1 (B) 10 (C) 50 (D) 500

Example (2): - Complete

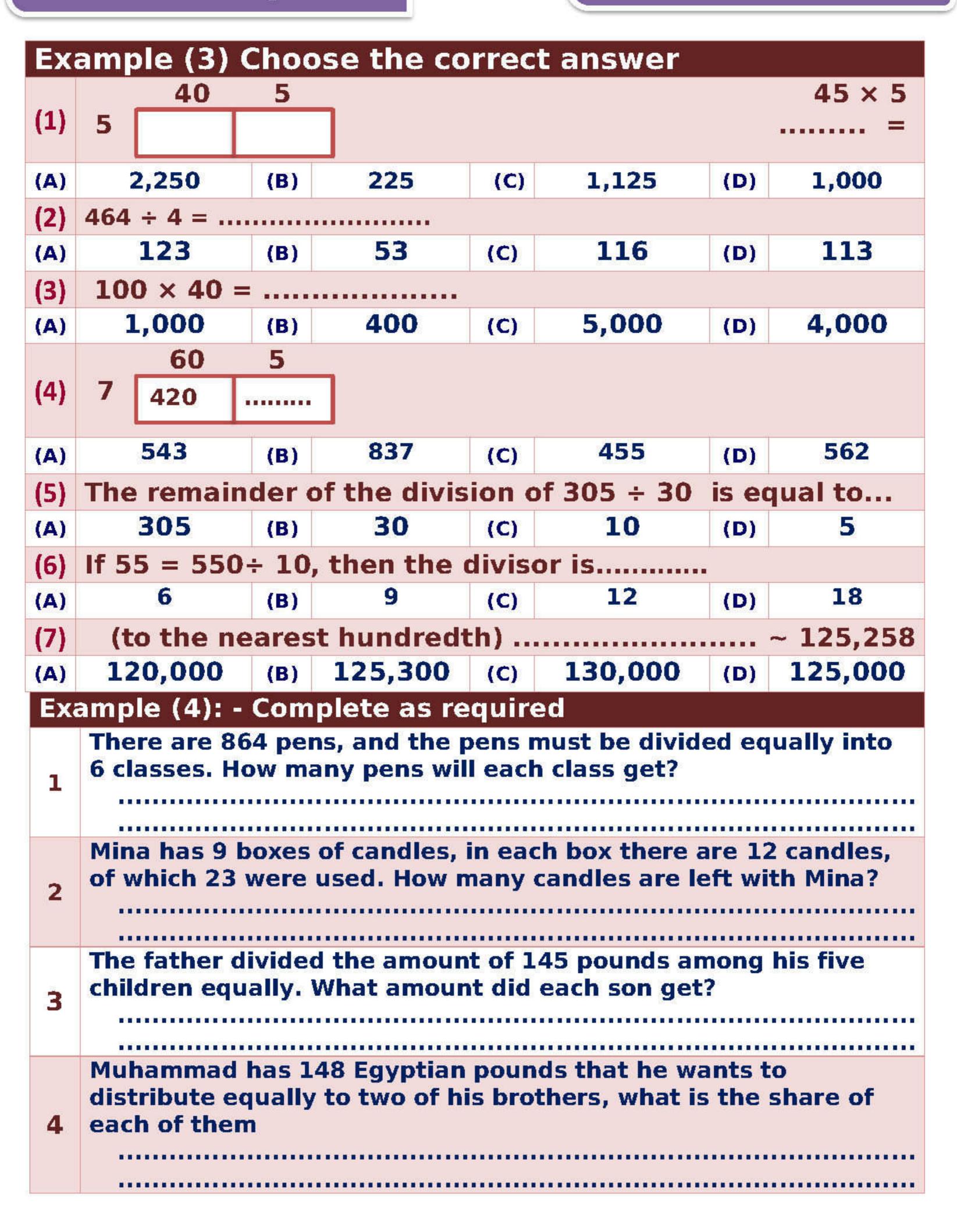
- 1 1,700 = × 17
- $3 9 \times \dots = (500 \times 9) + (90 \times 9) + (1 \times 9)$
- 4 1,600 ÷ 4 =
- $5 \quad 30 \times 40 = \dots$
- 6 1,008 × 4 =
- 7 88 ÷ 5 = (And the remainder 3)

The division problem that expresses the area of a rectangle model is

- 8 2 200
- 200
 50
 2

 100
 25
 1





Unit eight Lesson (1-2)

Arithmetic order of operations

• Chart of the order of calculations .

parenthesis foundations

Multiplication
and division
From left to right

Addition and
Subtraction
From left to right

Example

$$5+6\times4$$
 $=5+24$
 $=29$

1	1- Find the Answer					
	5 × 6 × 3		12 - 2 + 5		9 + 8 - 2	
1	=	6	=	11	=	
	=		=		=	
	48 ÷8 × 4		9 × 4 ÷ 6		24 ÷ 6 ÷ 4	
2	=	7	=	12	=	
	=		=		=	
	16 - 8 ÷ 4		8 - 2 × 3		16 ÷ 2 – 7	
3	=	8	=	13	=	
	=		=		=	
	40 +8 × 4		9 ÷ 3 × 6		9 × (10 - 6)	
4	=	9	=	14	=	
	=		=		=	
	7 + 70÷10 - 2		36 ÷ 4 + 9		6 × 3 - 3 × 5	
5	=	10	=	15	=	
	=		=		=	

142



2- solve each puzzle.

$$\triangle$$
 + \bigcirc + \triangle = 18

$$2 \times \triangle + \triangle = 28$$

$$() + \triangle + \triangle = 26$$

$$\longrightarrow$$
 × \bigcirc + \triangle =......

$$\bigcirc + \triangle + \triangle = 18$$

3- Solve the following problems .

Nashwa wants to bake blueberry muffins. You will put 6 berries in each pie she bought We roasted 198 berries from the store. On her way home, Nashwa ate 18 berries. How many pies can we grill with leftover berries?



Exercise (1)

1- Find the Answer					
	21 ÷ 3 - 2 × 3		25 ÷5 + 30 ÷ 3		8 × 2 + 24 - 12
1	=	3	=	5	=
	8 ÷8 × 4		5 × 4 ÷ 2		8 × 3 + 6 ÷ 2=
2	=	4	=	6	*****
	=		=		=

2- solve each puzzle.

$$\bigcirc + \triangle + \triangle = 10$$

___× () +
$$\triangle$$
 =.....

3- Solve the following problems.

Adil loves chocolate. He received 246 chocolates for his birthday. He ate a piece of chocolate and wants to give the rest to 6 of his friends. How many pieces What chocolate would each friend get if they divided it equally?

......



Exam (unit eight)

Ex	Example (1) Choose the correct answer							
(1)	Which of the following steps should be taken first when finding the product of $2 + 3 \times 5$?							
(A)	addition	(B)	subtraction	(C)	multiplication	(D)	division	
(2)	$25 \div 5 - 3 = .$					1		
(A)	1	(B)	2	(C)	3	(D)	4	
(3)	$60 + 5 \times 3 =$							
(A)	2	(B)	5	(C)	75	(D)	11	
(4)	30 - 4 × (2 +	1):	=					
(A)	102	(B)	28	(C)	18	(D)	78	
(5)	20 ÷ 5 + 5 - 2	2 =						
(A)	0	(B)	8	(C)	7	(D)	3	
(6)	2+2+2+2+2 - 4 =							
(A)	6 × 2 – 4	(B)	10 – 4	(C)	12 + 4	(D)	$2 \times 2 - 4$	
(7)	10 × (5-5)	=	***************		······································	.,		

Ex	Example (2): - Complete						
1	30 ÷ 5 + 5 × 8 =						
2	60 + 20 - 50 =						
3	5 × 6 ÷ 12 =						
4	17 × (15 - 8) + 2 =						
5	$(3,600 + 240 + 18) = (600 + \dots + 3) \times 6 = \dots$						
6	7 + (16 - 8) × 2 =						
7	2 × 5 ÷ 2 + 3 =						
8	3 × 2 + 49 ÷ 9 =						

(C)

0

10

(B)

45

(D)

20

(A)

20

1-1									
(A)	3	(B)	9	(C)	12	(D)			

(2)
$$10 - 9 \div 3 + 5 = \dots$$

(3)
$$4 \times 3 + 2 = \dots$$

 $(1) \quad 9 \div 3 \times 4 = \dots$

(4)
$$100 - 80 \times 1 = \dots$$

(5)
$$6 \times 2 \div 3 - 4 \dots 8$$

(A)
$$>$$
 (B) $<$ (C) $=$ (D) otherwise

(6)
$$(25-5)\div 4+2=....$$

5 55 A							
/ A \	6	(D)	7	(C)	12	(D)	18
(A)	U	(D)		(C)		(U)	10

(7) Which of the following operations is equal to the number 6 ?.....

(A)
$$24 \div 6 - 2$$
 (B) $3 \times 1 + 1$ (C) $12 \div 6 + 3$ (D) $18 - 3 \times 4$

Example (4): - Complete as required

	Khaled surfs the internet daily for 35 minutes after eating
	lunch, then studies for 65 minutes. What is the total number of
,	minutes that Khaled surfs the Internet and studies if it lasts 5
_	days?

An ant colony has 36,000 ants, 4,500 ants went out to search for food, so how many ants remained in the colony?

Adil loves chocolate. He received 426 chocolates for his birthday. He ate a piece of chocolate and wants to give the rest to 5 of his friends. How many pieces . The chocolate each friend

would have if they divided it equally?